



XXIII General Assembly of the International Union of Geodesy and Geophysics

IUGG2003
Sapporo Japan

June 30 - July 11, 2003
Sapporo, Japan



Program

The Science Council of Japan and sixteen Japanese scientific societies will host IUGG2003, the XXIII General Assembly of the International Union of Geodesy and Geophysics.

Hosts

Science Council of Japan
The Geodetic Society of Japan
Seismological Society of Japan
The Volcanological Society of Japan
Meteorological Society of Japan
Society of Geomagnetism and Earth, Planetary and Space Sciences
Japan Society of Hydrology and Water Resources
The Japanese Association of Hydrological Sciences
The Japanese Society of Snow and Ice
The Oceanographic Society of Japan
The Japanese Society for Planetary Sciences
The Japanese Society of Limnology
Japan Society of Civil Engineers
Japanese Association of Groundwater Hydrology
The Balneological Society of Japan
Japan Society of Erosion Control Engineering
The Geochemical Society of Japan

Special Support

Hokkaido Prefecture
City of Sapporo

Co-Sponsor

National Research Institute for Earth Science and Disaster Prevention
(JSS01 Hagiwara Symposium on Monitoring and Modeling of Earthquake and Volcanic Processes for Prediction)
Center for Climate System Research, University of Tokyo
(JSM01 Toward High Resolution Climate Models and Earth System Models)

Support

Ministry of Education, Culture, Sports, Science and Technology
Ministry of Economy, Trade and Industry
Ministry of Land, Infrastructure and Transport
Japan Marine Science and Technology Center
National Institute of Advanced Industrial Science and Technology
Japan Earth and Planetary Science Joint Meeting Organization
Japanese Forestry Society
Japan Business Federation (Nippon Keidanren)
NHK (Japan Broadcasting Corporation)
Hokkaido Board of Education
Sapporo Board of Education

IUGG Associations

International Association of Geodesy (IAG)
International Association of Geomagnetism and Aeronomy (IAGA)
International Association of Hydrological Sciences (IAHS)
International Association of Meteorology and Atmospheric Sciences (IAMAS)
International Association for the Physical Sciences of the Oceans (IAPSO)
International Association of Seismology and Physics of the Earth's Interior (IASPEI)
International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI)

IUGG2003 Program

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Meeting Services and General Information

Registration

All attendees must register and wear their badge while attending all IUGG2003 General Assembly functions. The registration desk will be located on the 1st floor of Site A (Royton Sapporo) and will be open during the following hours:

Sunday, June 29	13:00 - 19:00
Monday, June 30	7:30 - 18:00
Tuesday, July 1 through Friday, July 4	8:00 - 18:00
Saturday, July 5	8:00 - 17:00
Sunday, July 6	13:00 - 17:00
Monday, July 7	7:30 - 18:00
Tuesday, July 8 through Friday, July 11	8:00 - 18:00

General Information and Travel Information

There will be a General Information Desk located in the foyer on the 2nd floor of Site A (Royton Sapporo) for any general inquiries concerning the General Assembly. A Travel Information Desk will also be located next to the General Information Desk to answer any inquiries related to accommodations and transportation. Both desks will be open during the same hours as the Registration Desk.

Association Dinner Ticket

Tickets for Association Dinners can be reserved at the Association Dinner Ticket Desk located in the foyer on the 2nd floor of Site A (Royton Sapporo). Detailed information concerning each Association Dinner will be announced on the message board. The open hours for the Desk will vary depending on the day, so please check with the Desk or the message board for further information.

Message Board

A message board is available for mutual communication among participants. Changes in the session schedule, announcements from the Local Organizing Committee and information on the Association Dinners will also be placed on the message board. The message board will be located on the 3rd floor of Site A (Royton Sapporo) during the General Assembly period (except for July 2, when it will be moved to the 2nd floor).

IUGG2003 Local Organizing Committee

Site A (Royton Sapporo), 2nd floor
Phone: (011) 261-4204 (direct)
2314 (extension number within the Royton Sapporo)

IAHS Publications Room

Site C (Sapporo Education and Culture Hall), 4th floor
(except for the morning of July 7, when it will be moved to the 1st floor, in front of Room 24)

Sunday, July 6	18:30 - 19:30
Monday, July 7	7:45 - 11:00 11:00 - 16:30
Tuesday, July 8 through Thursday, July 10	8:00 - 16:30
Friday, July 11	8:00 - 9:00 12:30 - 14:00

IAVCEI Desk

Scientific field trip guidebook is on sale at the IAVCEI Desk, Site A (Royton Sapporo), 2nd floor.

Offices of IUGG and the Associations

Offices of IUGG and the Associations are located on the 6th floor of Site A (Royton Sapporo). Please refer to page 7 for specific location and room numbers.

IUGG Office

Phone: (011) 261-4207 (direct)
2618/2620 (extension number within the Royton Sapporo)

IAG Office

Phone: (011) 261-4208 (direct)
2614/2616 (extension number within the Royton Sapporo)

IAGA Office

Phone: (011) 261-4210 (direct)
2610/2612 (extension number within the Royton Sapporo)

IAHS Office

Phone: (011) 261-4212 (direct)
2606/2608 (extension number within the Royton Sapporo)

IAMAS Office

Phone: (011) 261-4213 (direct)
2607/2609 (extension number within the Royton Sapporo)

IAPSO Office

Phone: (011) 261-4216 (direct)
2611/2613 (extension number within the Royton Sapporo)

IASPEI Office

Phone: (011) 261-4218 (direct)
2615/2617 (extension number within the Royton Sapporo)

IAVCEI Office

Phone: (011) 261-4219 (direct)
2619/2621 (extension number within the Royton Sapporo)

SCOSTEP Office

Phone: (011) 271-2711 (front desk of the Royton Sapporo)
2605 (extension number within the Royton Sapporo)

Internet Room

Internet facilities are available to all delegates. Please note that there is a time limit of 15 minutes per session, to enable the maximum number of participants to benefit from this facility.

Site A (Royton Sapporo), 3rd floor	
Monday, June 30	7:30 - 19:00
Tuesday, July 1 through	
Friday, July 4	8:00 - 19:00
Saturday, July 5	8:00 - 17:00
Monday, July 7	7:30 - 19:00
Tuesday, July 8 through	
Thursday, July 10	8:00 - 19:00
Friday, July 11	8:00 - 16:00

Business Center

Site A (Royton Sapporo), 1st floor next to the front desk
At the Business Center, you can make copies, send or receive faxes or work on a computer. A certain fee will be required for all services.
The Business Center will be open 24 hours a day during the period of IUGG 2003.

Complimentary Refreshments

Site A (Royton Sapporo), 3rd floor (except July 2: 2nd floor)
Site B (Hokkaido Koseinenkin Kaikan), 3rd floor
Site C (Sapporo Education and Culture Hall), 1st floor
Monday, June 30 through Friday, July 4
Monday, July 7 through Friday, July 11
10:00 - 11:00, 15:30 - 16:30

Exhibition

Site A (Royton Sapporo), 3rd floor
Tuesday, July 1 through
Thursday, July 3 9:00 - 18:00
Friday, July 4 9:00 - 16:00
Monday, July 7 through
Wednesday, July 9 9:00 - 18:00
Thursday, July 10 9:00 - 16:00
Please refer to page 25 for a full list of the exhibitors.

Outreach

There will be a number of outreach programs during the Assembly period.
“IUGG Citizens’ College,” a series of public seminars for citizens by distinguished participants of each specific field, will be held in Site A (Royton Sapporo). In cooperation with local municipal governments and science museums, “Science Lectures” will be spread all around the Hokkaido area. A round-table discussion on global environment by junior high school students with IUGG participants as their advisors will be held in the Sapporo Convention Center Special Conference Hall. Moreover, participants will go to local elementary schools to hold “Special Science Classes” for students respectively. There will also be a “Junior Poster Session” presented by local junior and senior high school students at Site A (Royton Sapporo), and IUGG participants are kindly requested to vote for the best presentation.

Accompanying Persons

The Accompanying Persons Lounge is situated in the Lobby on the 1st floor of Site C (Sapporo Education and Culture Hall) and can be used freely between 9:00 and 18:00 each day to meet friends, relax and arrange trips around Sapporo.
Volunteers will be there at those times to provide information on the Accompanying Persons Program, and to advise and assist you on how to book seats on the excursions we have organized. Please note that the assembly point for all our trips/events will be in the Accompanying Persons Lounge.
We offer many various excursions, including: Welcome Tea Party with a short koto (Japanese musical instrument) performance, guided tour of Sapporo, Japanese Culture and Ainu Culture introductions, hot spring experience, Japanese cooking and tasting, one-day picnic with BBQ lunch, etc.

Accommodations

Assistance related to accommodation matters is available at the Travel Information Desk located in the foyer on the 2nd floor of Site A (Royton Sapporo). The Travel Information Desk will be open during the same hours as the Registration Desk. Otherwise, call (011) 261-7166 or 7167

Press Room

Site C (Sapporo Education and Culture Hall), 3rd floor
Monday, June 30 through Friday, July 4
Monday, July 7 through Friday, July 11
8:00 - 18:00

Press Conferences will be held from 17:00 every day while the Press Room is open.
A number of papers (talk) will be highlighted from each Association and the author of the paper will introduce the essence of his/her findings, which serve to promote public understanding of geodesy and geophysics. News releases and copies of journal articles about research being presented at the meeting will be made available to reporters.

Childcare

A professional childcare company will provide childcare service during the Assembly period for children from 3 months up to 12 years old according to the following details.

Site B (Hokkaido Koseinenkin Kaikan)
Monday, June 30 through Friday, July 4
Monday, July 7 through Friday, July 11
8:00-18:30

- 1) COTY Co., Ltd. offers professional child care services for children from 3 months up to 12 years old.
<http://www.coty.co.jp/index2.html> (Japanese only)
- 2) Insurance: Registration of children must be required to take out accident insurance. Comprehensive Insurance System for Baby-sitter Agent is applied to the above service.

- 3) Meals: Parents are required to feed their own children at lunchtime.
- 4) Cost to parents: Parents will be required to pay ¥700 (approx. US\$6.00) per hour for childcare services, provided that the cost of the room fee is officially supported. Cash payment should be made directly at the childcare room.
- 5) Liability: IUGG LOC is expected to assume no responsibility for the childcare services rendered.

We will prepare a comfortable room (Japanese style, wide and calm) as a nursery room at Site B (Hokkaido Koseinenkin Kaikan) and find good baby sitters who can provide good English communication. We are sure that you and your children will have a relaxing time there.

Service Information from LOC

Daily lunch box “Bento” service:

Lunch box meals will be sold at a reasonable cost at Site A (Royton Sapporo, 1F), Site B (Hokkaido Koseinenkin Kaikan, 3F), and Site C (Sapporo Education and Culture Hall, 1F), from noon during weekdays. Other light meals, such as sandwiches and soft drinks, are also available.

Convenience & Souvenir shop

You can also find lunch boxes or drinks, goods, original gifts of Hokkaido University at a convenience store temporarily open on the first floor at Site A (Royton Sapporo). Choose from a number of items (T-shirt, Wine, Sake, Senu (a fan), Japanese Mug, etc) as a commemorative IUGG2003 souvenir.

Open hours: 11:00 - 15:00 on Monday, June 30 through July 11 (except July 5 and 6)

The IUGG2003 Original Sake

Sake (Rice wine) has been brewed for many centuries in Japan. This original Sake, made especially for IUGG 2003, brewed in Sapporo by Nihon Seishu Co., Ltd. (a local brewer company). It is made from local rice "Ginpu" and brewed in Hokkaido with high quality local groundwater. The water has iron and manganese contents of less than 0.001ppm making it exceptionally pure and ideal for brewing traditional sake. This IUGG2003 Original Sake is mild tasting with a delicate scent and sold at a special price of ¥3,000 for a 720 ml bottle. Only 500 of these bottles of Sake have been produced.

The IUGG2003 Original T-Shirt

The Original T-Shirt designed by the IUGG2003 Local Organizing Committee, printed on traditional Japanese dye deep indigo blue, can be purchased for ¥4,000 (including a 25% contribution). Your purchase of a T-Shirt will be part of a fund-raising campaign, so your cooperation would be highly appreciated.

The Hokkaido University COOP

The Hokkaido University COOP has shops and restaurants in the Hokkaido University main campus. Its headquarters is about a 15 minute walk from Site A (Royton Sapporo). You are free to use services provided by the Hokkaido University COOP (Hokudai Seikyoku), which is supported by the University students, teachers and staff members. Open hours: 10:00 - 19:00 on Monday through Friday, 10:00 - 14:00 on Saturday.



The IUGG2003 Original Sake label sign



The IUGG2003 Original T-Shirt

Planetarium

Minolta Planetarium Co., Ltd. will prepare a digital planetarium, MEDIAGLOBE, during the Assembly. MEDIAGLOBE will create a digital image to express the motion of fixed stars or celestial objects to create an enjoyable planetarium environment.

Site A (Royton Sapporo), 1st basement floor
Tuesday, July 1 through Sunday, July 13
10:00-18:00

Sapporo Beer Terrace

Participants can enjoy the world-famous “Sapporo Beer” at Sapporo Media Park’s Spica Garden (Site D). The Beer Terrace will be open between 17:00 and 19:30 each day to allow delegates to drink fresh beer and relax over snacks during the Assembly period. 1 drink: ¥400- (Note: Closed on July 2, 5, 6)

Pacific Music Festival

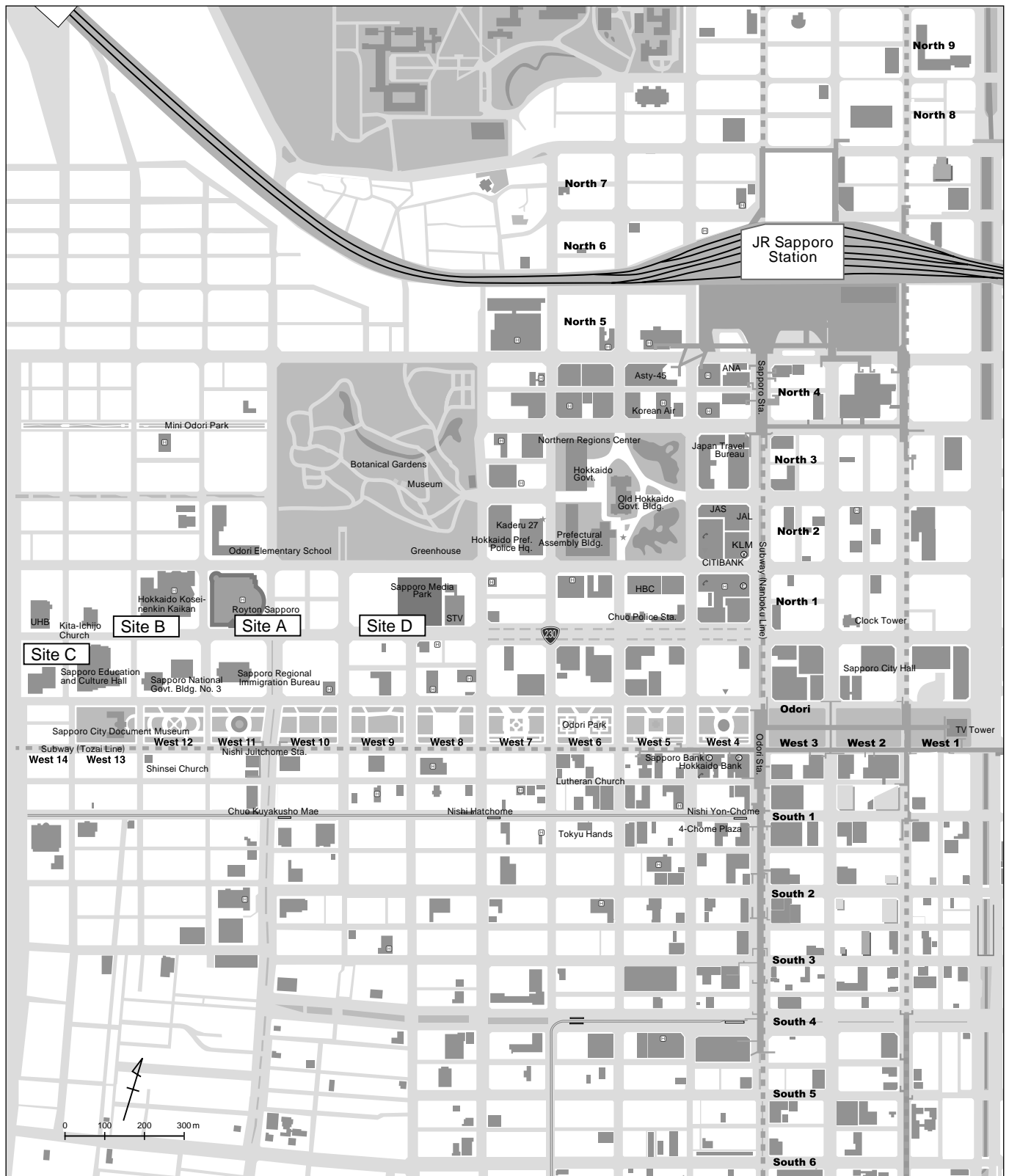
The Pacific Music Festival (PMF) is an international music festival established in 1990 by Leonard Bernstein, one of the premier conductors, composers and educators of the 20th century. The major event of PMF, which is held from July 5 to July 25, is the educational program (PMF Academy), where world-renowned artists act as faculty and guide young musicians selected from auditions held throughout the world. There are various other programs including performances by artists, auditors and educational programs. For further information, please contact:

PMF Organizing Committee

c/o Sapporo Concert Hall
1-15, Nakajima-koen, Chuo-ku
Sapporo 064-0931
JAPAN
E-mail: pmfoc@hi-ho.ne.jp
FAX: (011) 520-1687
TEL: (011) 520-2222
<http://www.pmf.or.jp/>

Map around the Assembly Site and Floor Plan

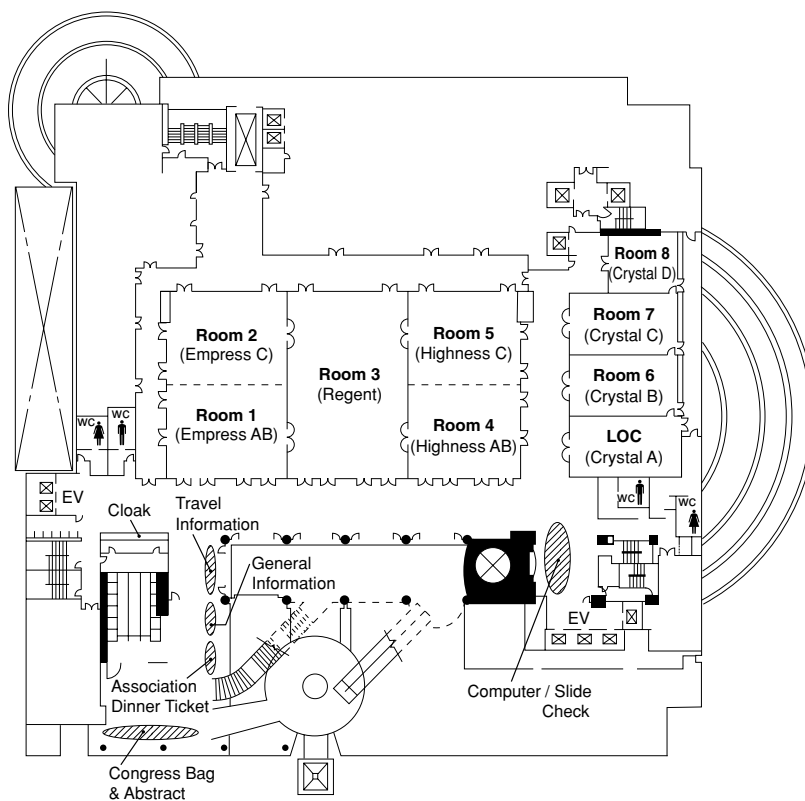
Map around the Assembly Site



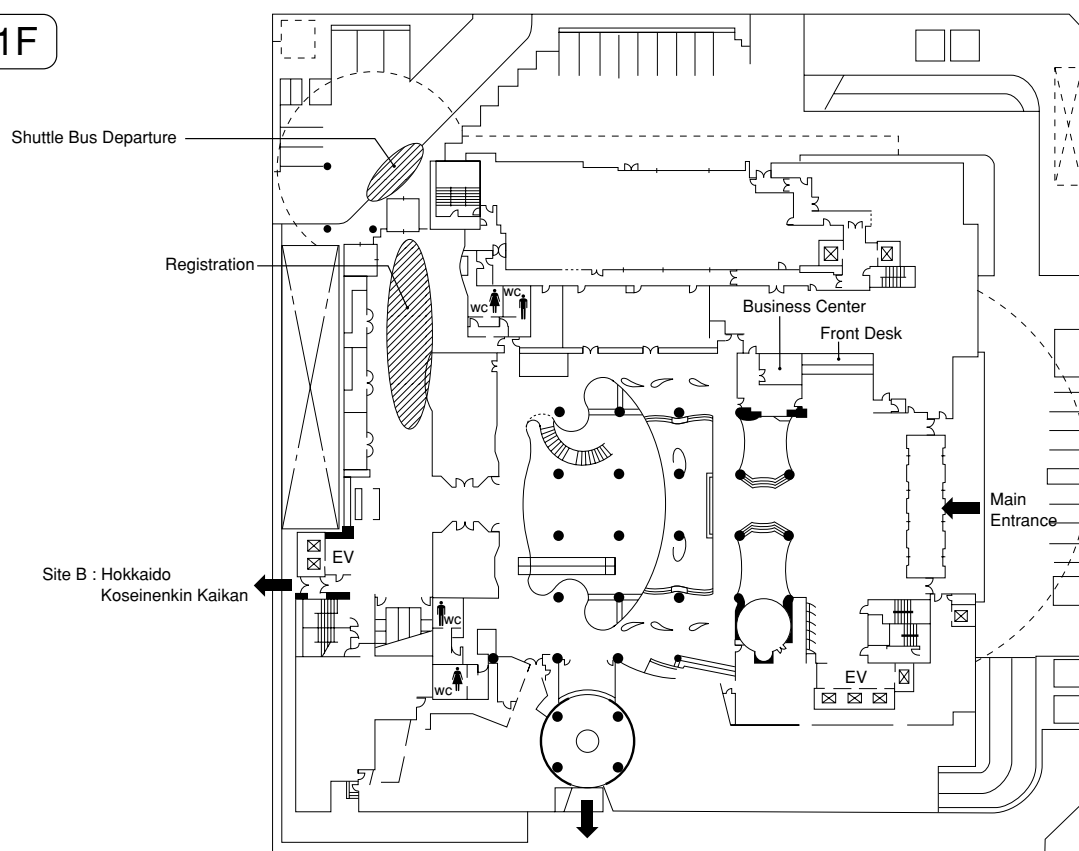
Floor Plan

Site A: Royton Sapporo

2F

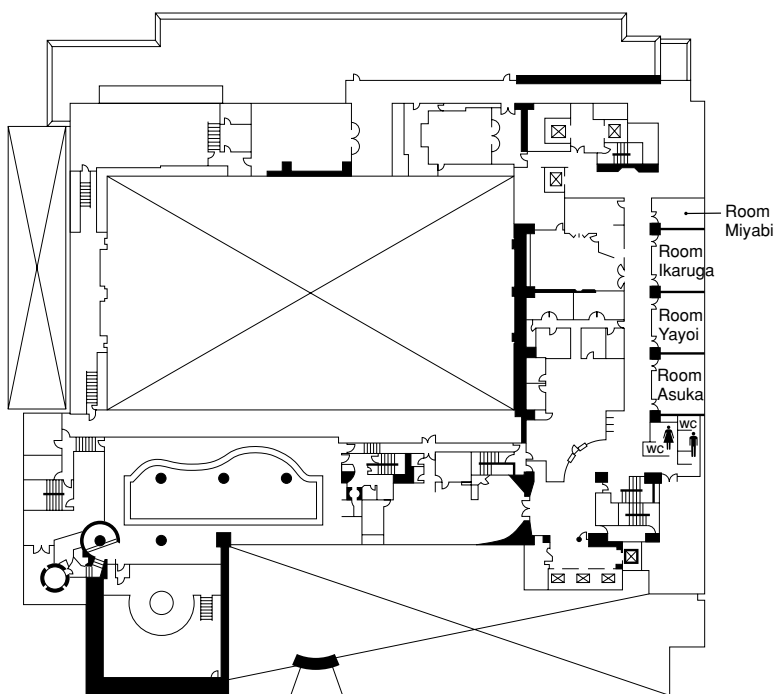


1F

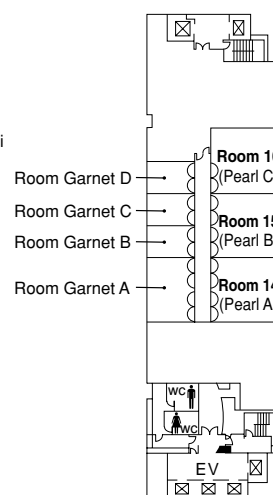


Site B : Hokkaido Koseinenkin Kaikan Site D : Sapporo Media Park / STV Hall
Site C : Sapporo Education and Culture Hall

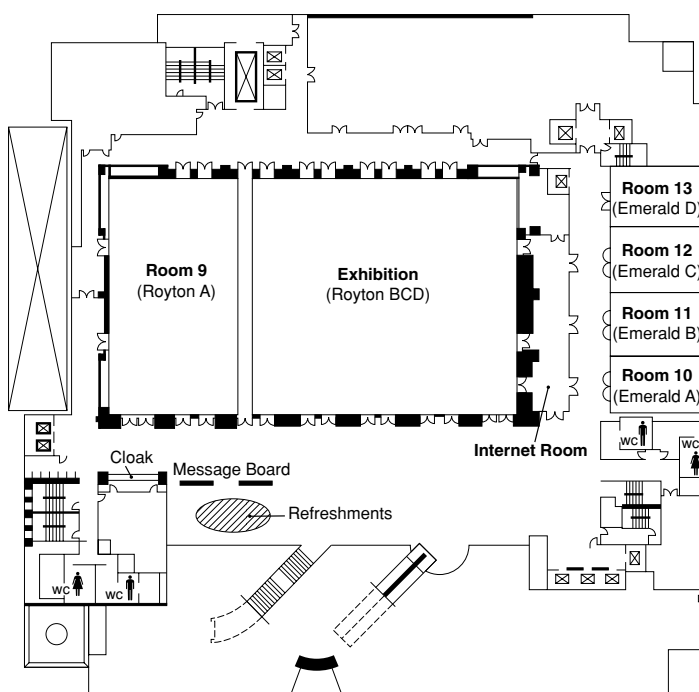
4F



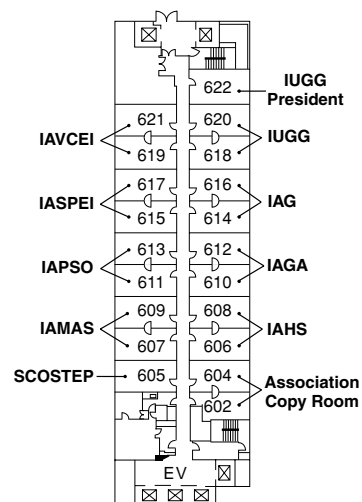
20F



3F

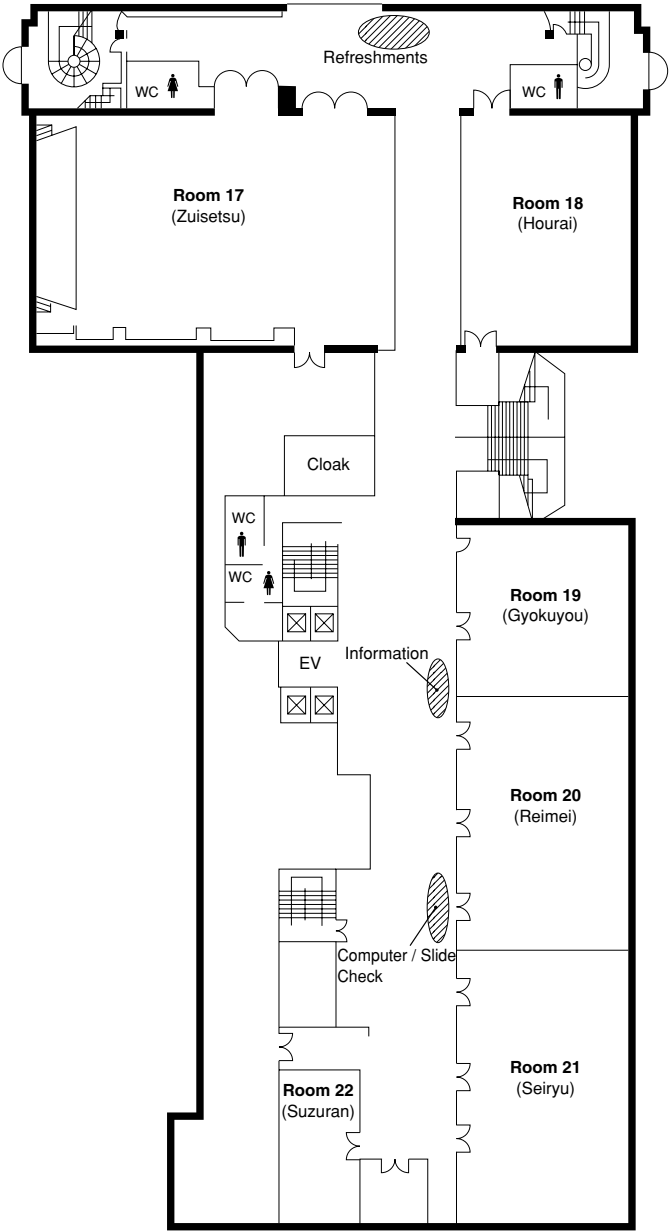


6F

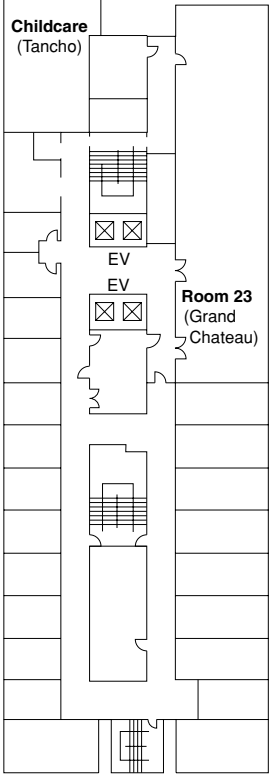


Site B: Hokkaido Koseinenkin Kaikan

3F

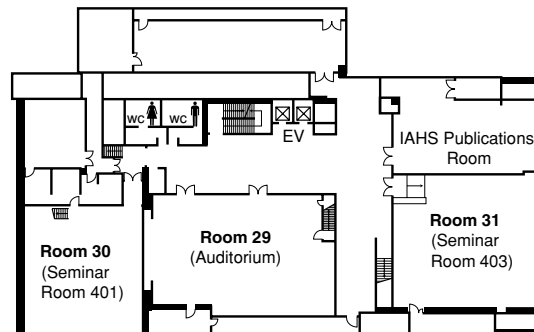


8F

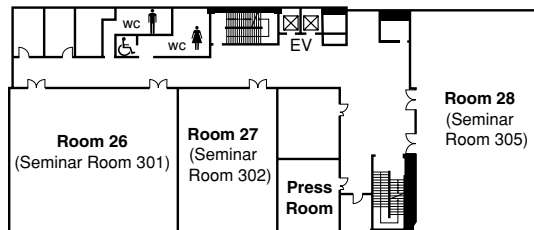


Site C: Sapporo Education and Culture Hall

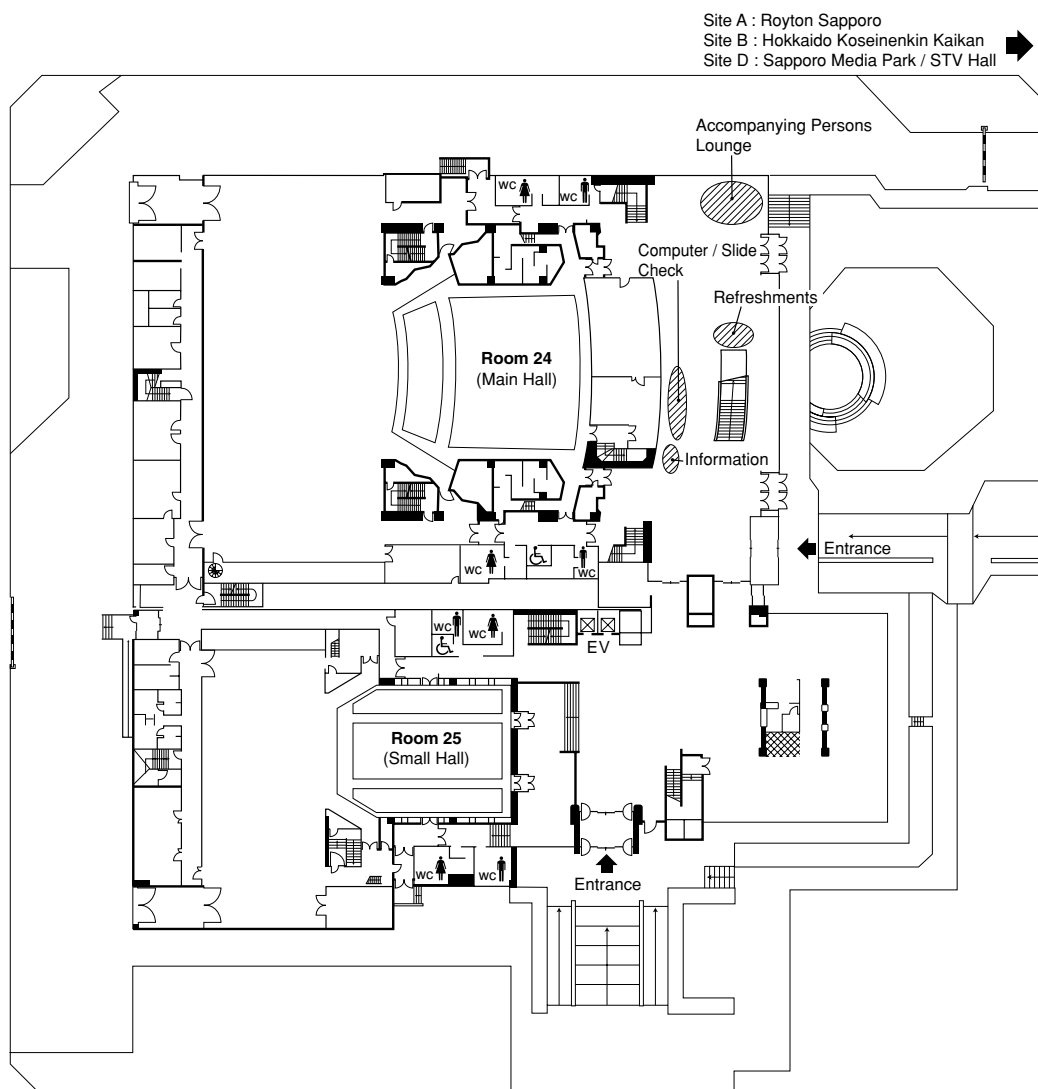
4F



3F

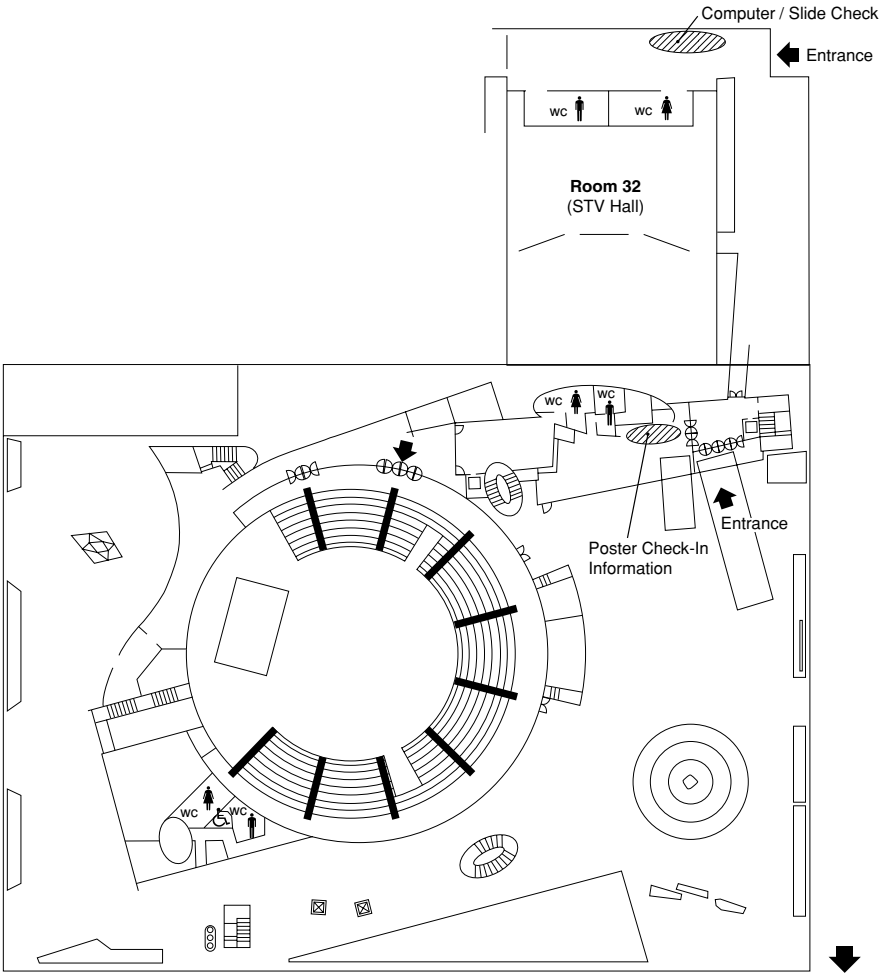


1F



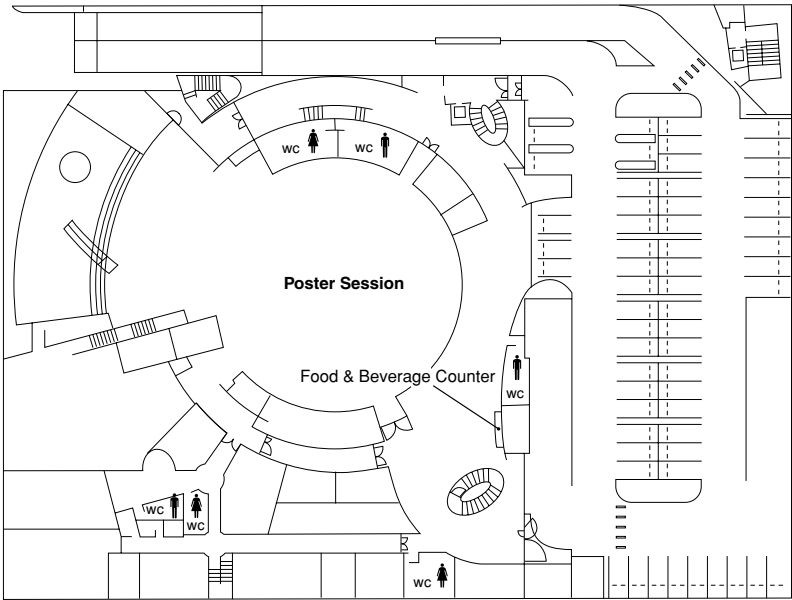
Site D: Sapporo Media Park (SPICA) & STV Hall

1F



Site A : Royton Sapporo
Site B : Hokkaido Koseinenkin Kaikan
Site C : Sapporo Education and Culture Hall

B1F



Social Events

IUGG

IUGG2003 Welcome Ceremony

Wednesday, July 2

Opening Entertainment 18:30 -

Welcome Ceremony 19:00 -

Sapporo Convention Center

*The reception desk at the Sapporo Convention Center will open at 17:00. **We humbly request you to be seated by 18:30.**

*Shuttle bus will be available from Site A (Royton Sapporo) to the Sapporo Convention Center on July 2. Please see the Message Board for the shuttle bus schedule.

The Welcome Ceremony will be followed by a reception. Admission is free of charge.

IUGG2003 Closing Ceremony

Friday, July 11

15:00 - 16:00

Site A (Royton Sapporo), Room 3 (Regent)

Australian IUGG Council Reception

Tuesday, July 1

19:00 -

Site A (Royton Sapporo), Room 5 (Highness C)

Perugia IUGG Council Meeting / Reception

Friday, July 4

Meeting 17:00 - 19:00 / Reception 19:30 - 22:00

Site A (Royton Sapporo), Room 5 (Highness C)

IAG

IAG Reception

Thursday, July 3

19:00 - 21:00

Sapporo Garden Palace

*Tickets are available at the Association Dinner Ticket Desk on the 2nd floor, Site A (Royton Sapporo)

IAG Dinner

Wednesday, July 9

19:30 -

Sapporo Beer Garden, STAR HALL

*Tickets are available at the Association Dinner Ticket Desk on the 2nd floor, Site A (Royton Sapporo)

*Shuttle bus will be available from Site A (Royton Sapporo).

IAGA

IAGA Dinner

Thursday, July 10

19:30 -

Sapporo Beer Garden, CLASSIC HALL

Approx. ¥5,000

*Tickets are available at the Association Dinner Ticket Desk on the 2nd floor, Site A (Royton Sapporo)

*Shuttle bus will be available from Site A (Royton Sapporo) between 18:15 and 19:00

IAHS

IAHS Banquet

Tuesday, July 8

18:30 -

Sapporo Beer Garden

*Tickets are sold in advance on a first-come, first-served basis. Tickets will be sold on site on a space-available basis only. Please contact the Association Dinner Ticket Desk (Site A, 2nd floor)

*Shuttle bus will be available from Site C (Sapporo Education and Culture Hall).

IASPEI

IASPEI Dinner

Wednesday, July 9

19:30 -

Sapporo Beer Garden, CLASSIC HALL

*Tickets are available at the Association Dinner Ticket Desk on the 2nd floor, Site A (Royton Sapporo)

IAVCEI

IAVCEI Dinner

Friday, July 4

19:00 -

Sapporo Beer Garden, STAR HALL

*Tickets are available at the IAVCEI Desk on the 2nd floor, Site A (Royton Sapporo)

IHFC

IHFC 40th Anniversary Party

Friday, July 4

19:00 -

Site A (Royton Sapporo), Room 3 (Regent)

*Invitees only.

OTHERS

USNC Reception

Thursday, July 3

18:30 - 19:30

Site A (Royton Sapporo), Room 3 (Regent)

Associated Meetings

IUGG

IUGG Executive Committee Bureau

Sunday, June 29
9:00 - 12:00
Site A (Royton Sapporo), Room 14 (Pearl A)

IUGG Council Meeting

Tuesday, July 1
16:00 - 19:00
Site A (Royton Sapporo), Room 4 (Highness AB)

IUGG Bureau Breakfast

Thursday, July 3
6:30 -
Site A (Royton Sapporo), Garnet B

IUGG Executive Committee

Thursday, July 3
16:00 - 18:00
Site A (Royton Sapporo), Garnet A

IUGG Non-Member Countries

Thursday, July 3
19:30 - 21:00
Site A (Royton Sapporo), Garnet B

IUGG Council

Friday, July 4
13:30 - 17:00
Site A (Royton Sapporo), Room 5 (Highness C)

IUGG IGY+50 Committee

Friday, July 4
17:00 - 19:00
Site A (Royton Sapporo), Garnet A

IUGG C for Studies of the Earth's Deep Interior

Friday, July 4
18:30 -
Site A (Royton Sapporo), Room 11 (Emerald B)

Association Members Meeting

Monday, July 7
19:00 - 21:00
Site A (Royton Sapporo), Garnet B

Executive Committee Meeting

Tuesday, July 8
16:00 - 18:00
Site A (Royton Sapporo), Garnet A

Council Meeting

Wednesday, July 9
16:00 - 19:00
Site A (Royton Sapporo), Room 1 (Empress AB)

IGY + 50 Committee Meeting

Thursday, July 10
17:00 - 18:00
Site A (Royton Sapporo), Garnet A

New Executive Committee Meeting

Friday, July 11
16:00 - 17:00
Site A (Royton Sapporo), Room 10 (Emerald A)

IAG

IAG Bureau

Monday, June 30
14:00 - 17:00
Site A (Royton Sapporo), Room 16 (Pearl C)

IAG Executive Committee

Tuesday, July 1
8:30 - 12:30
Site A (Royton Sapporo), Garnet A

IAG Opening

Tuesday, July 1
13:00 -
TBA

IAG Council

Tuesday, July 1
16:15 - 18:00
Site A (Royton Sapporo), Room 14, (Pearl A)

IAG Executive Committee

Thursday, July 3
8:00 - 9:00
Site A (Royton Sapporo), Room 15 (Pearl B)

IAG Commission V Meeting

Friday, July 4
Evening (TBA)
Site A (Royton Sapporo), Room 16 (Pearl C)

IAG APSG Business Meeting

Friday, July 4
Evening (TBA)
Site A (Royton Sapporo), Room 15 (Pearl B)

IAG New Executive Committee

Saturday, July 5
14:00 - 17:00
Site A (Royton Sapporo), Room 10 (Emerald A)

Executive Committee Meeting

Monday, July 7
All Day (TBA)
Site A (Royton Sapporo), Room 15 (Pearl B)

Council Meeting

Monday, July 7
19:00 - 21:00
Site A (Royton Sapporo), Room 12 (Emerald C)

IAG Closing

Thursday, July 10
After last G07 Session (16:00 - 17:30)
Site A (Royton Sapporo), Room 3 (Regent)

IAGA

IAGA Executive Committee

Monday, June 30

13:00 -

Site A (Royton Sapporo), Room 12 (Emerald C)

IAGA Conference of Delegates

Monday, June 30

19:00 -

Site A (Royton Sapporo), Room 1 (Empress AB)

IAGA Div.I, WG 1

Tuesday, July 1

19:00 -

Site A (Royton Sapporo), Room 11 (Emerald B)

IAGA Div.II, WG A

Tuesday, July 1

19:00 -

Site A (Royton Sapporo), Room 13 (Emerald D)

IAGA Div.II, WG B

Tuesday, July 1

19:00 -

Site A (Royton Sapporo), Room 10 (Emerald A)

IAGA Div.II, WG G

Tuesday, July 1

18:30 -

Site A (Royton Sapporo), Room 8 (Crystal D)

IAGA Div.III, WG 5

Tuesday, July 1

18:30 -

Site A (Royton Sapporo), Room 16 (Pearl C)

IAGA Div.V, WG 1

Tuesday, July 1

18:30 -

Site A (Royton Sapporo), Room 15 (Pearl B)

IAGA Div.I, WG 2

Tuesday, July 1

19:00 -

Site A (Royton Sapporo), Room 14 (Pearl A)

IAGA Div.II, WG E

Thursday, July 3

19:00 -

Site A (Royton Sapporo), Room 6 (Crystal B)

IAGA Div.IV

Thursday, July 3

After session

Site A (Royton Sapporo), Room 10 (Emerald A)

IAGA IDC-DC

Thursday, July 3

After session

Site A (Royton Sapporo), Room 11 (Emerald B)

IAGA Div.V, WG 2

Thursday, July 3

18:30 -

Site A (Royton Sapporo), Room 12 (Emerald C)

IAGA Div.V, WG 7

Thursday, July 3

18:30 -

Site A (Royton Sapporo), Room 8 (Crystal D)

IAGA Div.I, WG 3

Thursday, July 3

19:00 -

Site A (Royton Sapporo), Room 16 (Pearl C)

IAGA Div.I, WG 4

Thursday, July 3

19:00 -

Site A (Royton Sapporo), Room 15 (Pearl B)

IAGA Div.II, WG C

Thursday, July 3

19:00 -

Site A (Royton Sapporo), Room 14 (Pearl A)

IAGA / IASPEI EMSEV Meeting

Thursday, July 3

Evening (TBA)

Site A (Royton Sapporo), Garnet A

IAGA Div.V, WG 3

Friday, July 4

18:30 -

Site A (Royton Sapporo), Room 8 (Crystal D)

IAGA / IASPEI EMSEV Meeting

Monday, July 7

Evening (TBA)

Site A (Royton Sapporo), Room 6 (Crystal B)

IAGA Div.V, WG 8

Monday, July 7

18:30 -

Site A (Royton Sapporo), Room 11 (Emerald B)

IAGA Div.V, WG 9

Monday, July 7

18:30 -

Site A (Royton Sapporo), Room 16 (Pearl C)

IAGA Div.III, WG 1

Monday, July 7

18:30 -

Site A (Royton Sapporo), Room 15 (Pearl B)

IAGA Div.II, WG F

Monday, July 7

18:15 -

Site A (Royton Sapporo), Room 14 (Pearl A)

IAGA VERSIM

Monday, July 7

19:00 -

Site A (Royton Sapporo), Room 14 (Pearl A)

IAGA Div.II, WG D

Monday, July 7

19:00 -

Site A (Royton Sapporo), Garnet A

IAGA Div.V

Tuesday, July 8

18:30 -

Site A (Royton Sapporo), Room 12 (Emerald C)

IAGA Div.I

Tuesday, July 8

19:00 -

Site A (Royton Sapporo), Room 15 (Pearl B)

IAGA Div.II

Tuesday, July 8

19:00 -

Site A (Royton Sapporo), Room 14 (Pearl A)

IAGA Div.III

Tuesday, July 8

18:30 -

Site A (Royton Sapporo), Garnet A

IAGA Executive Committee

Wednesday, July 9

13:00 - 15:30

Site A (Royton Sapporo), Garnet A

IAGA Executive Committee

Thursday, July 10

13:00 - 15:30

Site A (Royton Sapporo), Room 8 (Crystal D)

IAGA Conference of Delegates

Thursday, July 10

16:00 - 18:30

Site D (Sapporo Media Park), Room 32 (STV Hall)

IAGA Executive Committee

Friday, July 11

13:00 - 14:30

Site A (Royton Sapporo), Room 14 (Pearl A)

IAHS**IAPSO / IAHS Committee on Groundwater**

Saturday, July 5

AM (TBA)

Site A (Royton Sapporo), Room 13 (Emerald D)

IAHS Bureau

Sunday, July 6

AM (TBA)

Site A (Royton Sapporo), Room 15 (Pearl B)

Plenary I

Monday, July 7

After Session

Site A (Royton Sapporo), Room 5 (Highness C)

Hydrology 2020 WG Business Meeting

Tuesday, July 8

After Session

Site A (Royton Sapporo), Room 8 (Crystal D)

Commission 1 Meeting

Wednesday, July 9

After Session

Site A (Royton Sapporo), Room 7 (Crystal C)

Commission 2 Meeting

Wednesday, July 9

After Session

Site A (Royton Sapporo), Room 13 (Emerald D)

Commission 3 Meeting

Wednesday, July 9

After Session

Site A (Royton Sapporo), Room 10 (Emerald A)

Commission 4 Meeting

Wednesday, July 9

TBA (After Session)

Site A (Royton Sapporo), Room 11 (Emerald B)

Commission 5 Meeting

Wednesday, July 9

After Session

Site A (Royton Sapporo), Room 12 (Emerald C)

Commission 6 Meeting

Wednesday, July 9

After Session

Site A (Royton Sapporo), Room 8 (Crystal D)

Commission 7 Meeting

Wednesday, July 9

After Session

Site A (Royton Sapporo), Room 16 (Pearl C)

Commission 8 Meeting

Wednesday, July 9

After Session

Site A (Royton Sapporo), Room 15 (Pearl B)

Commission 9 Meeting

Wednesday, July 9

After Session

Site A (Royton Sapporo), Room 14 (Pearl A)

Bureau Meeting

Thursday, July 10

PM (TBA)

Site A (Royton Sapporo), Room 15 (Pearl B)

Plenary II

Thursday, 10 July

Evening (TBA)

Site A (Royton Sapporo), Room 5 (Highness C)

Bureau 2nd Meeting

Friday, July 11

All Day (TBA)

Site A (Royton Sapporo), Room 15 (Pearl B)

IAMAS**IAMAS Executive Committee**

Monday, June 30

8:30 - 10:30

Site A (Royton Sapporo), Room 16 (Pearl C)

IAMAS General Assembly

Monday, June 30

18:30 - 20:30

Site A (Royton Sapporo), Room 5 (Highness C)

Executive Committee Meeting

Sunday, July 6
18:30 -
TBA

IAMAS Bureau Breakfast

Monday, July 7
8:30 - 9:30
Site A (Royton Sapporo), Room TBA

Executive Committee Meeting

Monday, July 7
18:30 - 20:30
Site A (Royton Sapporo), Room 8 (Crystal D)

General Assembly Meeting

Tuesday, July 8
18:30 - 20:30
Site A (Royton Sapporo), Room 2 (Empress C)

Executive Committee Meeting for IAMAS 2005

Wednesday, July 9
8:30 - 10:30
Site A (Royton Sapporo), Room 12 (Emerald C)

IAPSO**IAPSO Executive Committee 1st Luncheon Meeting**

Monday, June 30
TBA
Site A (Royton Sapporo), Room 15 (Pearl B)

IAPSO Business Meeting

Tuesday, July 1
Evening (TBA)
Site A (Royton Sapporo), Room 7 (Crystal C)

Prince Albert I Medal Award and Lecture

Wednesday, July 2
12:30 -
Site D (Sapporo Media Park), Room 32 (STV Hall)
Walter Munk (USA) "Tales of the Venerable Honolulu Tide Gauge"

IAPSO / SCOR WG121

Saturday, July 5 9:00 - 17:00
Sunday, July 6 9:00 - 13:00
Site A (Royton Sapporo), Room 14 (Pearl A)

IAPSO / IAHS Committee on Groundwater

Saturday, July 5
AM (TBA)
Site A (Royton Sapporo), Room 13 (Emerald D)

Executive Committee 2nd Luncheon Meeting

Monday, July 7
TBA
Site A (Royton Sapporo), Room 14 (Pearl A)

IAPSO / IASPEI / IAVCEI Joint Committee on Tsunamis

Thursday, July 10
19:00 - 20:30
Site A (Royton Sapporo), Room 10 (Emerald A)

IASPEI**IASPEI Opening Plenary / Presidential Address; IDC / ISC Presentation**

Monday, June 30
8:30 - 10:00
Site A (Royton Sapporo), Room 9 (Royton A)

IASPEI Task Group on Scattering & Heterogeneity

Tuesday, July 1
18:30 - 19:30
Site A (Royton Sapporo), Garnet A

IASPEI / IAVCEI C on Physics & Chemistry of Earth Materials

Wednesday, July 2
AM (TBA)
Site A (Royton Sapporo), Room 11 (Emerald B)

IASPEI WG on Magnitude Measurements

Thursday, July 3
18:30 -
Site A (Royton Sapporo), Room 2 (Empress C)

IASPEI C on Earthquake Sources-Prediction & Modeling

Thursday, July 3
18:30 -
Site A (Royton Sapporo), Room 4 (Highness AB)

International Heat Flow Commission

Thursday, July 3
18:30 -
Site A (Royton Sapporo), Room 5 (Highness C)

IAGA / IASPEI EMSEV Meeting

Thursday, July 3
Evening (TBA)
Site A (Royton Sapporo), Garnet A

International Ocean Network (ION)

Thursday, July 3
18:30 - 20:30
Site A (Royton Sapporo), Garnet C

Business Meeting for Geo Risk Commission

Thursday, July 3
Evening (TBA)
Site A (Royton Sapporo), Room 13 (Emerald D)

IUGG C for Studies of the Earth's Deep Interior

Friday, July 4
18:30 -
Site A (Royton Sapporo), Room 11 (Emerald B)

IASPEI Asian Seismological Commission

Friday, July 4
19:00 - 22:00
Site A (Royton Sapporo), Room 14 (Pearl A)

IASPEI C on Seismological Observation and Interpretation

Friday, July 4
18:00 - 20:00
Site A (Royton Sapporo), Room 10 (Emerald A)

Global Geodynamics Project Business Meeting

Sunday, July 6

9:00 - 12:00

Site A (Royton Sapporo), Room 16 (Pearl C)

IAGA / IASPEI EMSEV Meeting

Monday, July 7

Evening (TBA)

Site A (Royton Sapporo), Room 6 (Crystal B)

IASPEI C on Tectonophysics & Crustal Structure

Monday, July 7

18:30 - 20:30

Site A (Royton Sapporo), Room 7 (Crystal C)

IASPEI FDSN Plenary I

Monday, July 7

19:30 - 22:30

Site A (Royton Sapporo), Room 13 (Emerald D)

IASPEI C on Earth Structure & Geodynamics

Monday, July 7

18:30 -

Site A (Royton Sapporo), Room 10 (Emerald A)

SCL / ILP Global Earthquake Potential Project

Tuesday, July 8

18:30 -

Site A (Royton Sapporo), Room 6 (Crystal B)

IASPEI C on Earthquake Hazard, Risk & Strong Ground Motion

Tuesday, July 8

18:30 - 20:30

Site A (Royton Sapporo), Room 7 (Crystal C)

IASPEI TG on for Seismic Imaging of the Lithosphere

Tuesday, July 8

18:30 - 19:30

Site A (Royton Sapporo), Room 16 (Pearl C)

IASPEI European Seismological Commission

Tuesday, July 8

18:30 - 19:30

Site A (Royton Sapporo), Room 13 (Emerald D)

IASPEI FDSN WG Meetings

Tuesday, July 8

19:00 - 22:30

Site A (Royton Sapporo), Garnet B

SCL / ILP Bureau Meeting (Closed)

Wednesday, July 9

8:30 - 12:00

Site A (Royton Sapporo), Garnet A

IASPEI Closing Plenary

Wednesday, July 9

18:00 - 19:30

Site A (Royton Sapporo), Room 3 (Regent)

IAPSO / IASPEI / IAVCEI Joint Committee on Tsunamis

Thursday, July 10

19:00 - 20:30

Site A (Royton Sapporo), Room 10 (Emerald A)

IASPEI / IAVCEI WG on Subduction Zones Located in Developing Countries

Thursday, July 10

18:30 - 20:00

Site A (Royton Sapporo), Room 11 (Emerald B)

IASPEI FDSN Plenary II

Thursday, July 10

19:30 - 22:30

Site A (Royton Sapporo), Room 12 (Emerald C)

IASPEI C on Education and Outreach

Thursday, July 10

18:30 - 20:30

Site A (Royton Sapporo), Room 8 (Crystal D)

IASPEI / IIEES Joint Working Group on the Effects of Surface Geology

Friday, July 11

13:00 -

KKR Sapporo, Phoenix

IAVCEI**IAVCEI GASES Commission**

Monday, June 30

18:00 -

Site A (Royton Sapporo), Room 11 (Emerald B)

IAVCEI LIPS Commission

Monday, June 30

18:00 -

Site A (Royton Sapporo), Room 12 (Emerald C)

IAVCEI Executive Committee

Monday, June 30

18:30 - 21:30

Site A (Royton Sapporo), Room 14 (Pearl A)

IAVCEI VEA Commission

Tuesday, July 1

18:00 -

Site A (Royton Sapporo), Room 12 (Emerald C)

IASPEI / IAVCEI C on Physics & Chemistry of Earth Materials

Wednesday, July 2

AM (TBA)

Site A (Royton Sapporo), Room 11 (Emerald B)

IAVCEI Volcano Seismology Commission

Wednesday, July 3

18:00 -

Site A (Royton Sapporo), Room 7 (Crystal C)

IAVCEI General Meeting

Friday, July 4

18:00 -

Site A (Royton Sapporo), Room 1 (Empress AB)

IAPSO / IASPEI / IAVCEI Joint Commission on Tsunamis

Thursday, July 10

19:00 - 20:30

Site A (Royton Sapporo), Room 10 (Emerald A)

**IASPEI / IAVCEI WG on Subduction Zones
Located in Developing Countries**

Thursday, July 10
18:30 - 20:00
Site A (Royton Sapporo), Room 11 (Emerald B)

OTHERS

ICCL 1st Meeting

Tuesday, July 1
18:15 - 19:30
Site A (Royton Sapporo), Garnet B

IRC Meeting

Wednesday, July 2
18:30 - 21:00
Site A (Royton Sapporo), Room 5 (Highness C)

International Committee on Polar Meteorology

Thursday, July 3
12:30 - 14:00
Royton Sapporo (Site A), Room 10 (Emerald A)

IODP Seismogenic Zone Town Meeting

Thursday, July 3
18:30 - 20:30
Site A (Royton Sapporo), Room 1 (Empress AB)xs

International Ocean Network (ION)

Thursday, July 3
18:30 - 20:30
Site A (Royton Sapporo), Garnet C

International Heat Flow Commission (IHFC)

Thursday, July 3
18:30 -
Site A (Royton Sapporo), Room 5 (Highness C)

Business Meeting for Geo Risk Commission

Thursday, July 3
Evening (TBA)
Site A (Royton Sapporo), Room 13 (Emerald D)

IODP Seismogenic Zone Town Meeting

Friday, July 4
18:30 - 20:30
Site A (Royton Sapporo), Room 2 (Empress C)

SCOSTEP CAUSES

Saturday, July 5
All day (TBA)
Site A (Royton Sapporo), Room 15 (Pearl B)

AOG Council Meeting

Saturday, July 5
TBA
Site A (Royton Sapporo), Garnet A

Global Geodynamics Project Business Meeting

Sunday, July 6
9:00 - 12:00
Site A (Royton Sapporo), Room 16 (Pearl C)

International Seismological Center Meeting 1

Sunday, July 6
All day (TBA)
Site A (Royton Sapporo), Garnet B

AOGS Townhall Meeting

Monday, July 7
Evening (TBA)
Site A (Royton Sapporo), Room 1 (Empress AB)

FAGS General Committee Meeting

Tuesday, July 8
13:00 - 17:00
Site A (Royton Sapporo), Room 7 (Crystal C)

CEOS Committee Meeting

Tuesday, July 8
PM (TBA)
Site A (Royton Sapporo), Room 10 (Emerald A)

ICMA Business Meeting 1

Tuesday, July 8
18:00 - 19:30
Site A (Royton Sapporo), Room 10 (Emerald A)

International Seismological Center Meeting 2

Tuesday, July 8
Evening (TBA)
Site A (Royton Sapporo), Room 11 (Emerald B)

US-Japan Land Model Development

Wednesday, July 9
18:30 - 20:30
Site A (Royton Sapporo), Garnet A

SCL/ILP Bureau Meeting (Closed)

Wednesday, July 9
8:30 - 12:00
Site A (Royton Sapporo), Garnet A

Darwin Area Wave Exp

Wednesday, July 9
18:00 - 19:30
Royton Sapporo (Site A), Garnet B

ICMA Business Meeting 2

Thursday, July 10
18:00 - 19:30
Site A (Royton Sapporo), Room 16 (Pearl C)

US-Japan Land Model Development

Thursday, July 10
18:30 - 20:30
Site A (Royton Sapporo), Room 14 (Pearl A)

ICCL 2nd Meeting

Thursday, July 10
18:15 - 19:30
Site A (Royton Sapporo), Garnet B

SCOSTEP Bureau Meeting

Saturday, July 12

SCOSTEP General Meeting

Sunday, July 13

Additional Scientific Program

IAHS Special Session; “Hydrology in 2020” by Hydrology 2020 Working Group

Thursday, July 9

PM (TBA)

Site C (Sapporo Education and Culture Hall),
Room 27 (Seminar Room 302)

Prince Albert I Medal Award and Lecture

Wednesday, July 2

12:30-

Site D (Sapporo Media Park), Room 32 (STV Hall)

Walter Munk (USA) “Tales of the Venerable Honolulu Tide Gauge”

Sushi-Lunch Lecture Series

12:45-13:45

Site B (Hokkaido Koseinenkin Kaikan),
Room 17 (Zuisetsu)

Nine distinct scientists in the atmospheric and related sciences will give relaxed lectures to a IAMAS and IUGG audience over lunch time. Attendees will be able to buy Sushi or a sandwich, plus something to drink, and listen to exciting ideas and dazzling achievements by leaders in the forefront of science.

Program

Tuesday, July 1

Dr. David Burridge, Director, European Centre for
Medium-range Weather Forecasting, Reading,
UK (subject to be determined)

Wednesday, July 2

Professor W. Richard Peltier, Department of Physics,
University of Toronto, Toronto, Canada: “Climate
dynamics in deep time”

Thursday, July 3

Professor Daniel Rosenfeld, Institute of Earth Sciences, The
Hebrew University of Jerusalem, Israel: “The death of rain:
Present day major climate changes through aerosols
suppressing precipitation”

Friday, July 4

Professor Eugenia Kalnay, Chair, Department of
Meteorology, University of Maryland, College Park, MD,
USA: “Ensemble forecasting and data assimilation”

Saturday, July 5

9:30-12:00

Site A (Royton Sapporo), Room 9 (Royton A)

JSM15: Nakaya and Magono Celebration: The Growth of
Ice Crystals and Snow. Main lecturer Professor John
Hallett, Desert Research Institute, Reno, USA: “The
Complex Snow Crystal”, followed by reception

Monday, July 7

to be determined later

Tuesday, July 8

Prof. Zheng Guoguang, Deputy Administrator, Chinese
Meteorological Administration, Beijing, China (on China=s
weather modification program)

Wednesday, July 9

ONE SATELLITE SPECIALIST

Thursday, July 10

Dr. Anny Cazenave, LEGOS-GRGS/Centre National
d’Etudes Spatiales, Toulouse, France: “Present-day sea
level rise : observations and causes”

***For possible changes see daily programs and
posters.***

Joint AOGS 1st Annual Meeting and APHW 2nd Conference

organizer: asia oceania geosciences society

information & updates: www.asiaoceania.org

5-9 july 2004

suntec singapore international convention & exhibition centre

singapore

Invitation to Attend

The partnership of two conferences, both with far reaching aims in Geosciences development, is impeccable! Come and join an expected 800 scientists and researchers in presenting, discussing and reviewing advances in the study of Geosciences.

Benefits

- ✓ Synergy from two joint conferences will create accelerated learning and cooperative platforms
- ✓ Expand your relationships, increase your connectivity and tap into the vast potential of the Pacific, including China and India
- ✓ Be part of a purposeful community that exchanges knowledge and experience

About the Societies

AOGS - The **Asia Oceania Geosciences Society**, is a Pacific-based international society, dedicated to promoting Geosciences and public benefits for Asia and Oceania. This being the first year of inception, the Council is excited to present a unique program that will interest those want to be part of the ever-growing Asia Oceania scene.

APHW - The **Asia Pacific Association of Hydrology and Water Resources** was established with the aim to promote exchange of operational knowledge and experience in water resources management, and research activities as well as education. The 1st APHW 2003 in Japan was a resounding success with 200 papers and 400 participants from 35 countries. We are excited to replicate or even exceed its expectations in 2004.

Conference Exhibit

The commercial exhibition will be emphasized strongly as an integral part of the program. Companies, government agencies, publishers, educational institutions, research facilities and scientific societies are encouraged to take part. Exhibitors will receive complimentary passes to the conference.

Scientific Sessions

Solid Earth (SE)
Oceans and Atmospheres (OA)
Space Physics and Planetary Science (SP)
Natural Hazards (NH)
Interdisciplinary Working Groups (IWGs)
Hydrology and Water Resources (HW)

Program and Fees

Scientific Conference at
SGD450.00 / USD270.00

Commercial Exhibit at
SGD3000.00 / USD1800.00

Special Sessions

Evolution of Western Pacific Marginal Basins:
New Observations and Syntheses
Seismicity and Earthquake Prediction
Historical Earthquake Studies and
Paleoseismology in Asia
Earthquake Modeling and Physics
Microwave Remote Sensing of Atmospheres in
the Solar System
South China Seas and Indonesian Throughflow
Multiscale Phenomena in the Earth's
Magnetosphere
Effects of Space Radiation on Solar System Ices
The Exploration of Mercury... and more

Information & updates @
www.asiaoceania.org

For enquiries

Email: meetmatt@meetmatt.net Hotline: + 65 64652901

Situated at one of the most important crossroads of the world, Singapore is a vibrant and cosmopolitan city state where tradition and modernity, East and West, meet and mingle harmoniously. Despite its 21st century facade, Singapore is very much steeped in age-old Asian cultures and traditions. Whether you're here for business or pleasure, Singapore has everything to make your stay a most memorable experience.



全国共同利用施設

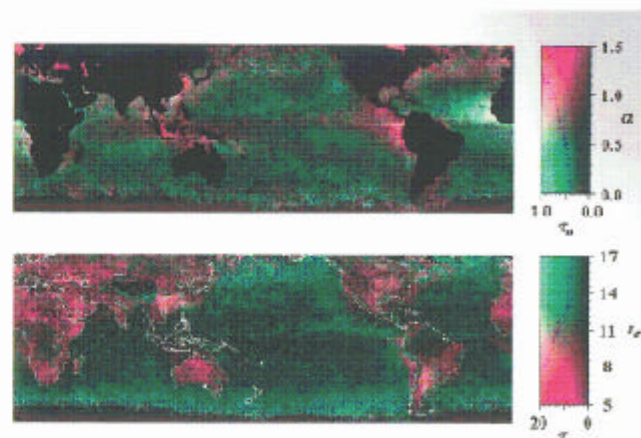
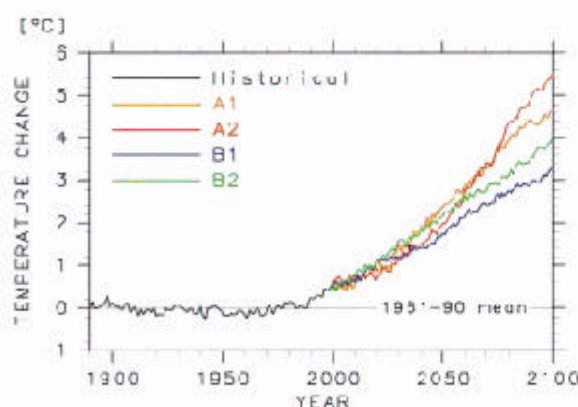
東京大学

気候システム研究センター

Center for Climate System Research,
The University of Tokyo

New CCSR

- * **Development of a Next-Generation Climate Model**
- * **Integration of Satellite Remote Sensing and Numerical Modeling**
- * **Research on Global Warming**

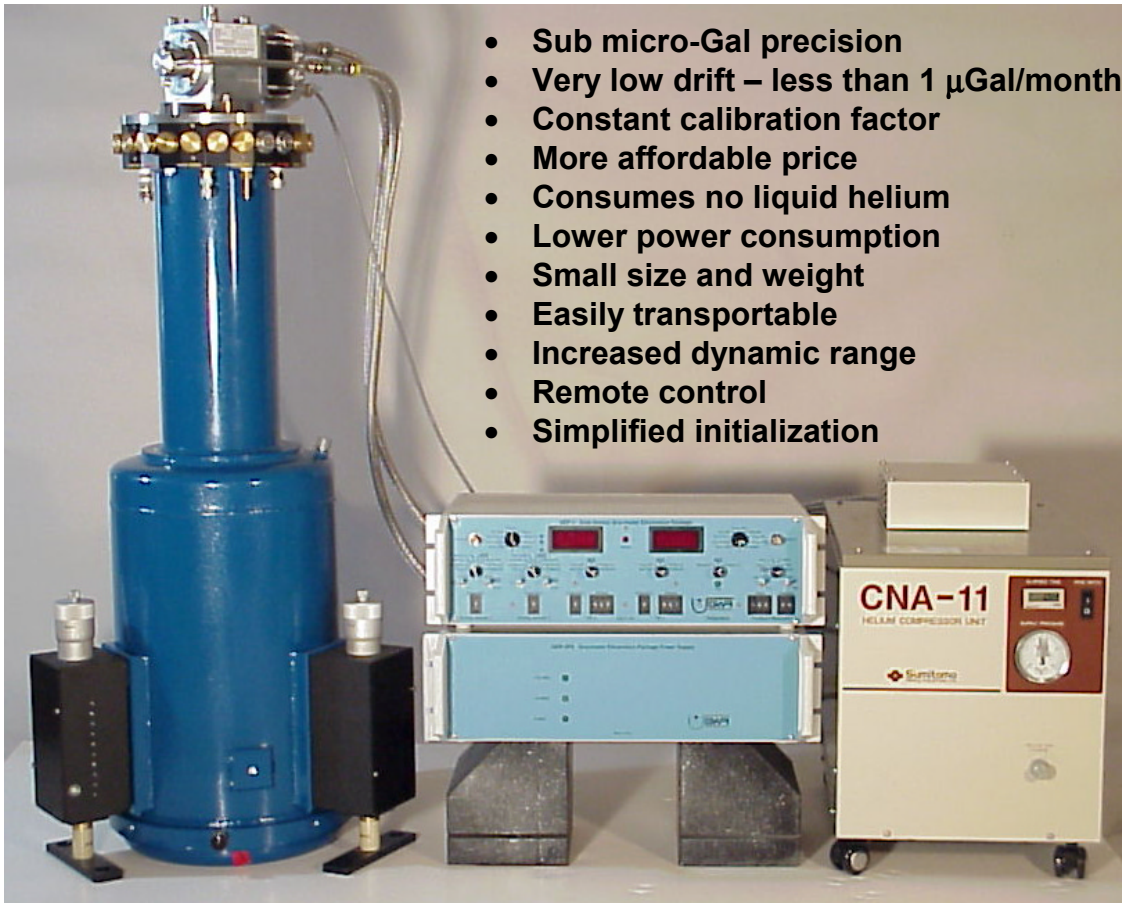


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 tel. 858.425.7655 fax 858.452.6965 email marketing@gwrinstruments.com
www.gwrinstruments.com

IUGG 2007



Why vote Melbourne Australia for IUGG 2007?

- The *Australian Geoscience Community* has strong experience and expertise, which guarantees you an intellectually stimulating and socially memorable IUGG conference in 2007.
- Australia is recognised internationally as one of the safest (World Health Organisation) and most welcoming countries in the world. A land free of social and political turmoil and filled with sun, surf and beaches, unique native flora and fauna, and warm, friendly people
- Recently voted as the **"World's Best Congress Centre"** by the Association Internationale des Palais de Congres (AIPC), the Melbourne Exhibition and Convention Centre (MECC) is a state of the art facility with over 50 flexible and divisible meeting rooms seating 15 to 10,000 delegates.
- The MECC is superbly located in the heart of Melbourne. Its only 15 minutes from the Melbourne International Airport and within walking distance of over 5,000 accommodation rooms - from 2 star to 5 star plus. The Melbourne city area has over 18,000 accommodation rooms.
- Melbourne Australia has a long history and experience in staging big events. The city has successfully played host to many of Australia's largest sports events, conferences and exhibitions including Rotary International 1993 (22,000 delegates), 18th Baptist World Congress 2000 (10,000 delegates) and the Commonwealth Games coming to Melbourne in 2006.
- Melbourne's International Airport facilitates over 200 international and 1,000 domestic aircraft arrivals per week. This helps to provide ease of access from across Australia and the world's major ports. Melbourne Airport, currently ranked 5th Best in the World (IATA)



Ayers Rock, Northern Territory



A Beautiful Tropical Rainforest



A Native Australian



ITALIAN NATIONAL RESEARCH COUNCIL

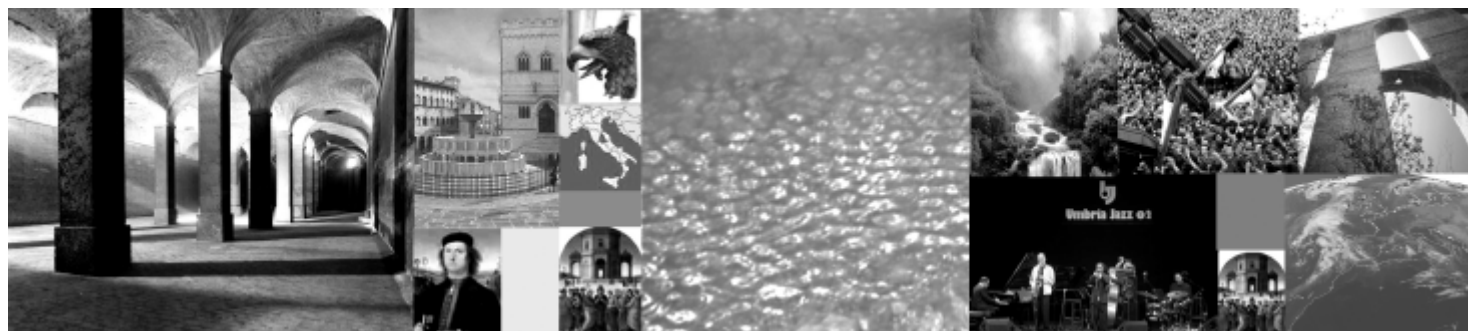


UMBRIA GREEN HEART OF ITALY 2007 GREEN HEART OF IUGG

IUGG 2007 PERUGIA - ITALY

YOU ARE CORDIALLY INVITED TO VISIT ITALIAN IUGG COMMITTEE INFORMATION POINTS:

- ROOM YAYOI'S (4TH FLOOR), 8:30AM - 6:30PM, JULY 1ST - JULY 6TH
- EXHIBITION HALL, STAND N. 1



Topographical Model



WEATHER COCK

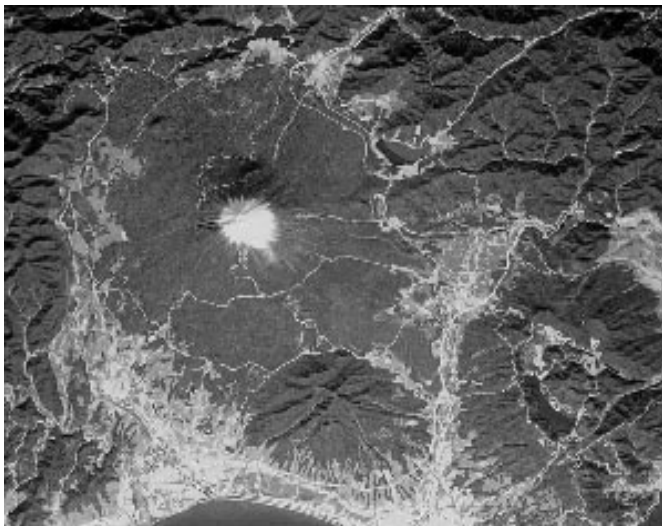
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The World of High-precision Topographical Model created by Computer

This is a high-precision and accurate model created by automatic cutting with the use of topographical data (DEM). The information on the topographical images enables us to create a model that looks like a scene to be seen from above the sky. It allows you to simulate scenes possible to predict in case of protection against calamities, environmental issues, and so on.



This model was created with the use of a numerical map issued by Geographical Survey Institute.

The information on maps for the study on protection against calamities is drawn on the model and easy to understand.

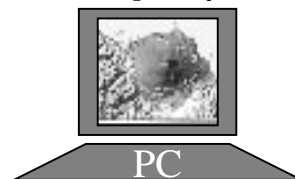
A lot of information such as courses used to evacuate as well as drawings of the topographical information can be

highlighted for users to see with ease

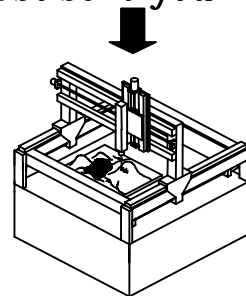
Realistic images are expressed as in the photographs from above the sky.

Our models are 3D communication tools that give users accurate and easy-to-see information with realistic expression of three dimensional images in order for many more people to share the understanding, compared to drawings on the plane field that are shown only on papers and screen monitors.

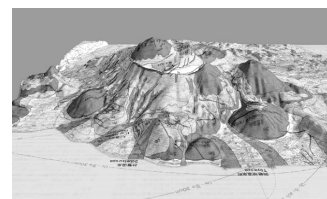
A new type of topographical models that use the three dimensional printing device developed by us.



Please send your data.



Automatic cutting Automatic printing



Present you with high-precision
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Topographical forms are created in the three dimensional manners with the use of automatic cutting device, based on each type of DEM data. In addition, GIS data created on the PC are directly drawn onto the three dimensional topography in the similar way to print them to the papers.

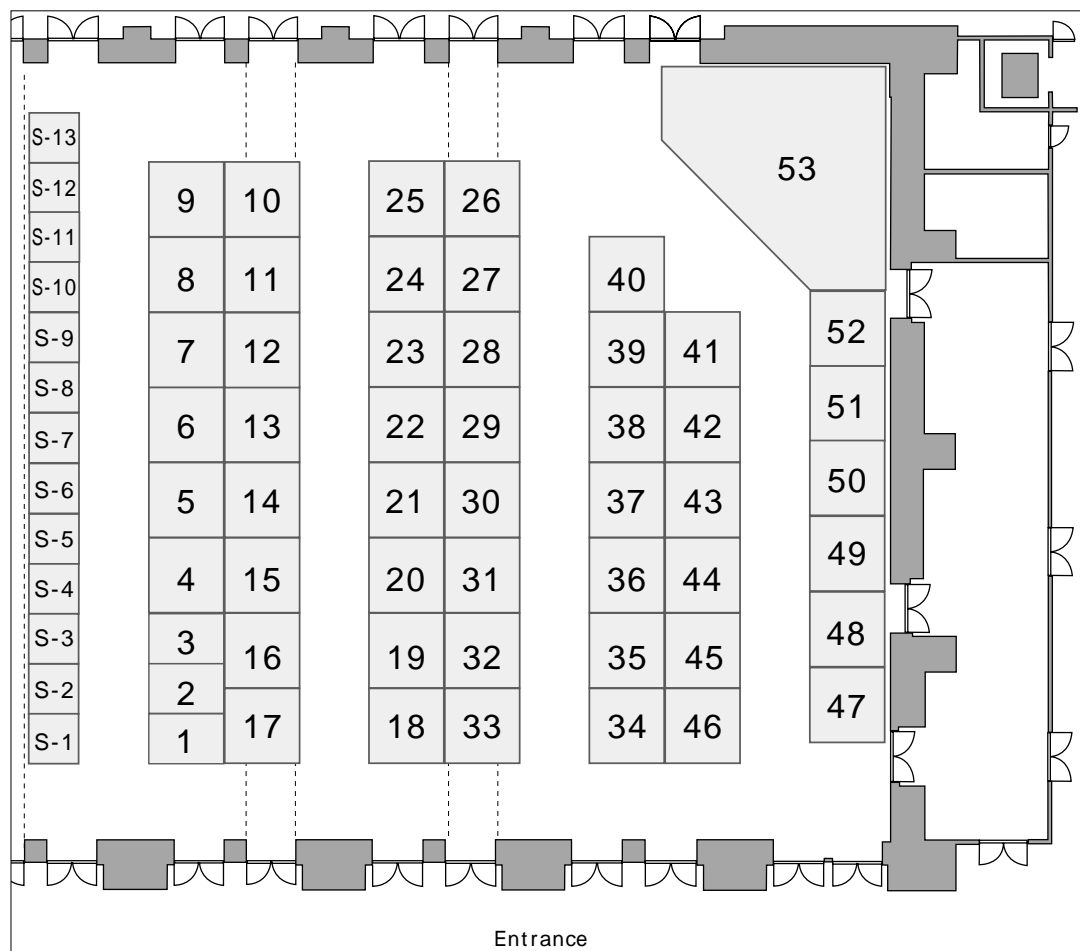
Contact us at:

Weather cock co.,ltd.

7-1-31, Nishi 3 jo, Tukisamu, Toyohira-ku, Sapporo, Japan
E-mail: info@weathercock.co.jp

Exhibition

Exhibition Hall Floor Plan (Site A, 3rd floor)



<IUGG2003 Academic Showcase at STAND 20 - 53>

The IUGG2003 Local Organizing Committee provides an opportunity for interaction between scientists visiting Japan and leading institutions, companies and organizations taking important roles in the field of earth and planetary sciences.

Especially, booth stands 20 through 53 are exhibits from some research institutions/organizations in Japan. They represent most scientific areas of IUGG, from the internal earth to the space. Plan to visit these booths. Contents of the booths are introduced in the brochure distributed at the booth area.

<List of institutions at IUGG2003 Academic Showcase>

- Center for Climate System Research, University of Tokyo
- Communications Research Laboratory
Incorporated Administrative Agency
- Disaster Prevention Research Institute, Kyoto University
- Earthquake Research Institute, University of Tokyo
- Geographical Survey Institute
- Geological Survey of Japan, National Institute of Advanced Industrial Science and Technology (AIST)
- Hokkaido University
- Hydrographic and Oceanographic Department, Japan Coast Guard
- Incorporated Administrative Agency
Public Works Research Institute
- Independent Administrative Institution
Civil Engineering Research Institute of Hokkaido
- The Institute of Space and Astronautical Science
- International Union of Geodesy and Geophysics (IUGG)
- Japan Marine Science and Technology Center (JAMSTEC)
- National Environmental Satellite, Data and Information Service
- National Research Institute for Earth Science and Disaster Prevention
- National Space Development Agency of Japan (NASDA)
Earth Observation Research Center (EORC)
- Solar-Terrestrial Environment Laboratory, Nagoya University

WEEK A (July 1-4)

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STAND S9

AGICO, Inc.

(Exclusive agency: Natsuhara Giken Co., Ltd.)

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STAND 7

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STAND 18

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STAND S13

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STAND 43

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STAND 13

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STAND 20-23

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STAND 29

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STAND 28

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STAND S10-S12

Geographical Survey Institute

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STAND 39-40

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STAND 36-38

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160-0022 Japan
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STAND 9

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STAND 17

HOKKAIDO CHIZU CO., LTD.
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STAND 10

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STAND 30

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STAND 19

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STAND 31

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STAND 44-45

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STAND 41-42

Integrated Ocean Drilling Program (IODP)
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DC 20036 USA
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STAND 4

International Union of Geodesy and Geophysics (IUGG)
URL: www.iugg.org/

STAND 46

**Japan Marine Science and Technology Center
(JAMSTEC)**
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STAND 53

Kluwer Academic Publishers

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STAND S4**Meeting Matters International / Asia Oceania****Geosciences Society (AOGS)**

World Scientific Publishing Center
5 Toh Tuck Link, 596224 Singapore
Tel: +65-6466-5775/+65-6465-2901 Fax: +65-6767-7667
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STAND 3**Melbourne Convention + Visitors Bureau**

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STAND 14-15**National Environmental Satellite, Data and Information Service**

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STAND 12**OYO Seismic Instrumentation Corp.**

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336-0015 Japan
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STAND S5-S8

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STAND 6

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STAND S1-S3

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STAND 5

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STAND 16

YSI/Nanotech Inc.

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URL: www.nanotech.co.jp

STAND 8

WEEK B (July 7-10)

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Yokohama-shi, Kanagawa 224-0053 Japan

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STAND 18

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STAND 43

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STAND 1

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STAND 20-23

**CRC Solutions Corp. / CRC Technical Corp. /
IBM Japan, Ltd.**

(CRC Solutions Corp.)

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STAND 5

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STAND 29

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STAND 28

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STAND 39-40

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STAND 36-38

GWR INSTRUMENTS, INC.

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STAND 13

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STAND 32-35

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STAND 30

Japan National Committee for IAHS

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STAND 14

IGS-Jet Propulsion Laboratory

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STAND 19

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STAND 31

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STAND 44-45

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STAND 41-42

International Union of Geodesy and Geophysics (IUGG)

URL: www.iugg.org/

STAND 46

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STAND 53

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STAND S4

Meeting Matters International / Asia Oceania Geosciences Society (AOGS)
World Scientific Publishing Center
5 Toh Tuck Link, 596224 Singapore
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STAND 3

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STAND 2

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STAND 24-27

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Earth Observation Research Center (EORC)
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1-8-10 Harumi, Chuo-ku, Tokyo 104-6023 Japan
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www.eorc.nasda.go.jp/index.htm

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STAND 47

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STAND 4

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STAND S1-S3

UNESCO IHP (International Hydrological Programme)
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STAND 15

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STAND 16

Session Schedule

WEEK A *Posters are displayed all day.

		June 30 (Mon.)		July 1 (Tue.)		July 2 (Wed.)	
		AM	PM	AM	PM	AM	PM
ORAL SESSIONS							
Site A (Royton)							
Room 1	Empress Hall AB	JSV03	JSV03	JSV03	V10	V10	
Room 2	Empress Hall C	JSV02	JSV02	JSV02		V08	V08
Room 3	Regent Hall		JSS01	JSS01	JSS01	SS02	SS02
Room 4	Hghness Hall AB	JSA03	JSA03	V12		JSA11	JSA11
Room 5	Highness Hall C	V06	V06	JSA03	JSA03		
Room 6	Crystal Room B	GAI.01	GAI.01	JSS02	JSS02	GAI.01	GAI.01
Room 7	Crystal Room C	GAI.01	GAI.01	GAI.02	GAI.02	JSV04	JSV04
Room 8	Crystal Room D	GAI.11	GAI.11	GAI.05	GAI.05	GAI.05	
Room 9	Royton Hall A			SS01	SS01	SS01	SS01
Room 10	Emerald Room A	JSA10	JSA10	GAI.12	GAI.12	JSA02	JSA02
Room 11	Emerald Room B		GAI.01	GAI.01	GAI.01		GAI.02
Room 12	Emeral Room C			GAI.01	GAI.01	GAI.03	GAI.03
Room 13	Emerald Room D		GAI.01	GAI.03	GAI.03	GAI.03	
Room 14	Pearl Hall A						
Room 15	Pearl Hall B			GAI.09	GAI.09		
Room 16	Pearl Hall C			GAI.02	GAI.02		
Site B (Hokkaido Koseinenkin Kaikan)							
	Zuisei 12:45-13:45			Sushi lecture		Sushi lecture	
Room 17	Zuisei	MI02	MI02	MI02	MI02	MI02	MI02
Room 18	Hourai	JSM01	JSM01	JSM01	JSM01	P01	P01
Room 19	Gyokuyou	P03	P03	P03	P03		P06
Room 20	Reimei	JSM18	JSM18	JSM18	JSM18		JSP02
Room 21	Seiryu	JSP01	JSP01	JSP01	JSP01	JSP01	
Room 22	Suzuran					JSM06	JSM06
Room 23	Grand Chateau	P05	P05	P05			JSM07
Site C (Sapporo Education and Culture Hall)							
Room 24	Main Hall	JWM01	JWM01	JWM01		G01	G01
Room 25	Small Hall	P02	P02	P02	P02	P02	P02
Room 26	Seminar Room 301	MI10	MI10	MI10	MC06	MC06	MC06
Room 27	Seminar Room 302						
Room 28	Seminar Room 305	MC14	MC14	JSM13	JSM13	JSM13	JSM13
Room 29	Auditorium	JSM09	JSM09	JSM09	JSM09		
Room 30	Seminar Room 401	MC07	MC07		P04		MC10
Room 31	Seminar Room 403		JSM08	JSM08	JSM08	JSM17	JSM17
Site D (Sapporo Media Park)							
Room 32	STV Hall			U1		U2	
POSTER SESSIONS (Core Time)							
Site D (Sapporo Media Park)							
		JSS01	JSA10	GAI.04	JSA02	JSM08	JSA06
		GAI.11	JSM01	GAI.01	JSA03	JSS02	JWS01
			JSM13	MC10	JSM18	MC06	JSA11
			GAI.09	V10	JSV02	MC14	JSM09
			GAI.01		JSV04	V07	JSP01
			GAI.05		GAI.02		JSV03
			GAI.01		GAI.02		JSM07
			GAI.02		GAI.02		GAI.03
			GAI.12		GAI.04		GAI.01
			GAI.01		GAI.03		GAI.01
			MI02a		P02b		MI02b
			MI10		V06		
			MC07		V12		
			P02a				
			P03				
			P05				
Week A		AM	PM	AM	PM	AM	PM
		June 30 (Mon.)		July 1 (Tue.)		July 2 (Wed.)	

WEEK B *Posters are displayed all day.

[illegible]

July 10 (Thu.)		July 11 (Fri.)					
AM	PM	AM	PM				
ORAL SESSIONS							
Site A (Royton)							
GAI.06	GAI.10	GAI.10				Room 1	Empress Hall AB
JSS07	JSS07	U8				Room 2	Empress Hall C
G07	G07					Room 3	Regent Hall
JSS06	SW03					Room 4	Highness Hall AB
JSA07	JSA07					Room 5	Highness Hall C
JSP04	JSP04					Room 6	Crystal Room B
MC03	MC03	MC03	MC03			Room 7	Crystal Room C
JSA09						Room 8	Crystal Room D
MC05	MC05	MC05	MC05			Room 9	Royton Hall A
						Room 10	Emerald Room A
GAV.06	GAV.06	GAI.09	GAI.09			Room 11	Emerald Room B
JSG03		GAI.07	GAI.07			Room 12	Emerald Room C
SS05	SW05					Room 13	Emerald Room D
						Room 14	Pearl Hall A
						Room 15	Pearl Hall B
GAI.08						Room 16	Pearl Hall C
Site B (Hokkaido Koseinenkin Kaikan)							
Sushi lecture							Zuisei 12:45-13:45
MI05	MI05	MI05	MI05			Room 17	Zuisei
JSM11	JSM11	MI07	MI07			Room 18	Hourai
MC11	MC11	MC11	MC11			Room 19	Gyokuyou
JSP09	JSP09	JSP09	JSP09			Room 20	Reimei
JSP10	JSP10	JSP10	JSP10			Room 21	Seiryu
	MC04	MC04	MC04			Room 22	Suzuran
	MC17	MC17	MC17			Room 23	Grand Chateau
Site C (Sapporo Education and Culture Hall)							
HS02	HS02	HS02	HS02			Room 24	Main Hall
HW07	HW07	HW07	HW07			Room 25	Small Hall
HW01	HW01					Room 26	Seminar Room 301
						Room 27	Seminar Room 302
						Room 28	Seminar Room 305
						Room 29	Auditorium
JWH01	JWH01	HW03	HW03			Room 30	Seminar Room 401
HW05		HW02				Room 31	Seminar Room 403
Site D (Sapporo Media Park)							
		U7	U7			Room 32	STV Hall
POSTER SESSIONS							
Site D (Sapporo Media Park)							
MC17	JSA08	JSA07	JSA09				
SW03	JWH01	GAI.10	GAI.06				
SW05	JSM11	HW02	GAI.08				
	JSP04b	HW03	HS02c				
	JSS06b		HW07				
	JSS07b		MC03				
	G02		MC11				
	G07						
	GAI.07						
	GAI.09						
	GAI.11						
	HS02b						
	HW05						
	MI05						
	MI07						
	SS04b						
	SS05						
			PM				
AM	PM	AM				Week B	
July 10 (Thu.)		July 11 (Fri.)					

Quick Half Day Reference

The Quick Half Day Reference gives an overview of Symposia and Workshops per half day. Please note that Inter-Association Symposia and Workshops are only listed as part of the Inter-Association program and bear reference to organising or leading Association, where:

U = UNION

IA = INTER-ASSOCIATION (IAG, IAGA, IAHS, IAMAS, IAPSO, IASPEI and IAVCEI)

G = IAG

A = IAGA

H = IAHS

M = IAMAS

P = IAPSO

S = IASPEI

V = IAVCEI

Monday, June 30 AM

INTER-ASSOCIATION

A M

JSA03 EQUATORIAL MIDDLE ATMOSPHERE-THERMOSPHERE-IONOSPHERE DYNAMICS AND ENERGETICS (IAGA, IAMAS, SCOSTEP)
Location: Site A, Room 4

A S V

JSA10 ELECTROMAGNETIC IMAGING AND MONITORING OF VOLCANOES AND ACTIVE FAULTS (IAGA, IASPEI, IAVCEI)
Location: Site A, Room 10

M P

JSM01 TOWARD HIGH RESOLUTION CLIMATE MODELS AND EARTH SYSTEM MODELS (IAMAS, IAPSO)
Location: Site B, Room 18

M P

JSM09 INTENSE VORTICES FROM THE SMALL SCALE TO THE PLANETARY SCALE (IAMAS [ICDM], IAPSO)
Location: Site C, Room 29

H M

JSM18 MEASUREMENT AND DISTRIBUTION OF PRECIPITATION (IAMAS [ICCP, IPCM], IAHS)
Location: Site B, Room 20

H M

JWM01 WATER AND ENERGY BUDGET WORKSHOP (IAMAS, IAHS)
Location: Site C, Room 24

M P

JSP01 THE DECADAL TO CENTENNIAL VARIABILITY OF THE OCEAN AND ATMOSPHERE (IAPSO, IAMAS, CLIVAR)
Location: Site B, Room 21

G A S V

JSS01 HAGIWARA SYMPOSIUM ON MONITORING AND MODELING OF EARTHQUAKE AND VOLCANIC PROCESSES FOR PREDICTION
Location of Posters: Site D

M V

JSV02 VOLCANISM AND THE EARTH'S ATMOSPHERE (IAVCEI, IAMAS)
Location: Site A, Room 2

S V

JSV03 FLOOD BASALT VOLCANISM (IAVCEI, IASPEI)
Location: Site A, Room 1

IAGA

GAI.11 GEODYNAMO, THEORIES AND EXPERIMENTS (SEDI)
Location: Site A, Room 8
Location of Posters: Site D

GAII.01 IONOSPHERE-THERMOSPHERE-MAGNETOSPHERE COUPLING
Location: Site A, Room 7

GAIII.01 WHAT ARE THE CAUSES AND MECHANISMS FOR PARTICLE ACCELERATION ASSOCIATED WITH AURORA?
Location: Site A, Room 6

IAMAS

MI02 CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)
Location: Site B, Room 17

MI10 MODELING PRE-HOLOCENE CLIMATES (ICCI, IRC, ICACGP)
Location: Site C, Room 26

MC07 OBSERVATIONAL AND MODEL ESTIMATES OF CLIMATE SENSITIVITY (ICDM)
Location: Site C, Room 30

MC14 DETECTING AND ATTRIBUTING THE EARLY SIGNS OF HUMAN INFLUENCES ON THE CLIMATE (ICCI)
Location: Site C, Room 28

IAPSO

P02 MARGINAL AND SEMI-ENCLOSED SEAS AND THEIR EXCHANGE WITH THE OPEN OCEAN
Location: Site C, Room 25

P03 THE ROLE OF TIDES, MESOSCALE PROCESSES, AND BOTTOM TOPOGRAPHY IN ENERGY TRANSFER AND MIXING

Location: Site B, Room 19

P05 THE PHYSICAL OCEANOGRAPHY OF THE INDIAN OCEAN

Location: Site B, Room 23

IAVCEI

V06 ORIGINS OF ARC MAGMA

Location: Site A, Room 5

Monday, June 30 PM

INTER-ASSOCIATION

A M

JSA03 EQUATORIAL MIDDLE ATMOSPHERE-THERMOSPHERE-IONOSPHERE DYNAMICS AND ENERGETICS (IAGA, IAMAS, SCOSTEP)

Location: Site A, Room 4

A S V

JSA10 ELECTROMAGNETIC IMAGING AND MONITORING OF VOLCANOES AND ACTIVE FAULTS (IAGA, IASPEI, IAVCEI)

Location: Site A, Room 10

Location of Posters: Site D

M P

JSM01 TOWARD HIGH RESOLUTION CLIMATE MODELS AND EARTH SYSTEM MODELS (IAMAS, IAPSO)

Location: Site B, Room 18

Location of Posters: Site D

A M

JSM08 ENERGETICS AND CIRCULATION OF THE MLT REGION AND ITS COUPLING WITH CIRCULATION AND CHEMISTRY OF THE THERMOSPHERE AND STRATOSPHERE (IAMAS [ICMA, ICACGP], IAGA)

Location: Site C, Room 31

M P

JSM09 INTENSE VORTICES FROM THE SMALL SCALE TO THE PLANETARY SCALE (IAMAS [ICDM], IAPSO)

Location: Site C, Room 29

G A H M P

JSM13 DATA ASSIMILATION FOR ATMOSPHERIC AND OCEANIC PROCESSES (IAMAS [ICDM, ICCP], IAHS, IAPSO, IAGA, IAG, SPARC)

Location of Posters: Site D

H M

JSM18 MEASUREMENT AND DISTRIBUTION OF PRECIPITATION (IAMAS [ICCP, IPCM], IAHS)

Location: Site B, Room 20

H M

JWM01 WATER AND ENERGY BUDGET WORKSHOP (IAMAS, IAHS)

Location: Site C, Room 24

M P

JSP01 THE DECADAL TO CENTENNIAL VARIABILITY OF THE OCEAN AND ATMOSPHERE (IAPSO, IAMAS, CLIVAR)

Location: Site B, Room 21

G A S V

JSS01 HAGIWARA SYMPOSIUM ON MONITORING AND MODELING OF EARTHQUAKE AND VOLCANIC PROCESSES FOR PREDICTION (IASPEI, IAVCEI, IAG, IAGA)

Location: Site A, Room 3

M V

JSV02 VOLCANISM AND THE EARTH'S ATMOSPHERE (IAVCEI, IAMAS)

Location: Site A, Room 2

S V

JSV03 FLOOD BASALT VOLCANISM (IAVCEI, IASPEI)

Location: Site A, Room 1

IAGA

GAI.01 EXTRATERRESTRIAL ROCK MAGNETISM AND THE ORIGIN OF REMANENCE IN THE SOLAR SYSTEM

Location: Site A, Room 13

Location of Posters: Site D

GAI.05 OBSERVATIONAL CONSTRAINTS ON FIELD BEHAVIOR: (PALEO) SECULAR VARIATION, PALEOINTENSITY, REVERSAL FREQUENCY AND AGE DATING (SEDI)

Location of Posters: Site D

GAI.09 ELECTRICAL AND ELECTROMAGNETIC STUDIES IN GEOTHERMALLY ACTIVE REGIONS

Location of Posters: Site D

GAI.11 GEODYNAMO, THEORIES AND EXPERIMENTS (SEDI)

Location: Site A, Room 8

GAI.01 IONOSPHERE-THERMOSPHERE-MAGNETOSPHERE COUPLING

Location: Site A, Room 7

Location of Posters: Site D

GAI.01 WHAT ARE THE CAUSES AND MECHANISMS FOR PARTICLE ACCELERATION ASSOCIATED WITH AURORA?

Location: Site A, Room 6

GAI.02 WHAT ROLE DO WAVES PLAY IN TRANSPORT AND ACCELERATION OF RING CURRENT AND RADIATION BELT PARTICLES?

Location of Posters: Site D

GAIII.12 HOW DOES MULTI-POINT MONITORING PROBE MULTIPLE SPATIAL AND TEMPORAL SCALES IN THE MAGNETOSPHERE?

Location of Posters: Site D

GAIV.01 THE DYNAMIC SUN, ITS ATMOSPHERE AND WIND

Location: Site A, Room 11

GAV.01 GLOBAL GEOMAGNETIC OBSERVATORY: TOWARDS A BETTER NETWORK OF GEOMAGNETIC OBSERVATIONS

Location of Posters: Site D

IAMAS

MI02 CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)

Location: Site B, Room 17

Location of Posters: Site D

MI10 MODELING PRE-HOLOCENE CLIMATES (ICCI, IRC, ICACGP)

Location: Site C, Room 26

Location of Posters: Site D

MC07 OBSERVATIONAL AND MODEL ESTIMATES OF CLIMATE SENSITIVITY (ICDM)

Location: Site C, Room 30

Location of Posters: Site D

MC14 DETECTING AND ATTRIBUTING THE EARLY SIGNS OF HUMAN INFLUENCES ON THE CLIMATE (ICCI)

Location: Site C, Room 28

IAPSO

P02 MARGINAL AND SEMI-ENCLOSED SEAS AND THEIR EXCHANGE WITH THE OPEN OCEAN

Location: Site C, Room 25

Location of Posters: Site D

P03 THE ROLE OF TIDES, MESOSCALE PROCESSES, AND BOTTOM TOPOGRAPHY IN ENERGY TRANSFER AND MIXING

Location: Site B, Room 19

Location of Posters: Site D

P05 THE PHYSICAL OCEANOGRAPHY OF THE INDIAN OCEAN

Location: Site B, Room 23

Location of Posters: Site D

IAVCEI

V06 ORIGINS OF ARC MAGMA

Location: Site A, Room 5

Tuesday, July 1 AM

UNION

UL1 FROM WEATHER PREDICTION TO GLOBAL CHANGE PROJECTION

Location: Site D, Room 32

U1 FORECASTING, PREDICTION AND PREDICTABILITY

Location: Site D, Room 32

INTER-ASSOCIATION

A M

JSA03 EQUATORIAL MIDDLE ATMOSPHERE-THERMOSPHERE-IONOSPHERE DYNAMICS AND ENERGETICS (IAGA, IAMAS, SCOSTEP)

Location: Site A, Room 5

M P

JSM01 TOWARD HIGH RESOLUTION CLIMATE MODELS AND EARTH SYSTEM MODELS (IAMAS, IAPSO)

Location: Site B, Room 18

A M

JSM08 ENERGETICS AND CIRCULATION OF THE MLT REGION AND ITS COUPLING WITH CIRCULATION AND CHEMISTRY OF THE THERMOSPHERE AND STRATOSPHERE (IAMAS [ICMA, ICACGP], IAGA)

Location: Site C, Room 31

M P

JSM09 INTENSE VORTICES FROM THE SMALL SCALE TO THE PLANETARY SCALE (IAMAS [ICDM], IAPSO)

Location: Site C, Room 29

G A H M P

JSM13 DATA ASSIMILATION FOR ATMOSPHERIC AND OCEANIC PROCESSES (IAMAS [ICDM, ICCP], IAHS, IAPSO, IAGA, IAG, SPARC)

Location: Site C, Room 28

H M

JSM18 MEASUREMENT AND DISTRIBUTION OF PRECIPITATION (IAMAS [ICCP, IPCM], IAHS)

Location: Site B, Room 20

H M

JWM01 WATER AND ENERGY BUDGET WORKSHOP (IAMAS, IAHS)

Location: Site C, Room 24

M P

JSP01 THE DECADAL TO CENTENNIAL VARIABILITY OF THE OCEAN AND ATMOSPHERE (IAPSO, IAMAS, CLIVAR)

Location: Site B, Room 21

G A S V

JSS01 HAGIWARA SYMPOSIUM ON MONITORING AND MODELING OF EARTHQUAKE AND VOLCANIC PROCESSES FOR PREDICTION (IASPEI, IAVCEI, IAG, IAGA)

Location: Site A, Room 3

G S

JSS02 RECENT DESTRUCTIVE EARTHQUAKES (IASPEI, IAG)

Location: Site A, Room 6

M V

JSV02 VOLCANISM AND THE EARTH'S ATMOSPHERE (IAVCEI, IAMAS)
Location: Site A, Room 2

S V

JSV03 FLOOD BASALT VOLCANISM (IAVCEI, IASPEI)
Location: Site A, Room 1

IAGA

GAI.02 NATURAL MAGNETIC MINERALS: MAGNETIC PROPERTIES, CHEMISTRY AND EVOLUTION
Location: Site A, Room 16

GAI.04 METHODS AND APPROACHES IN PALEOMAGNETISM (POSTER SESSION)
Location of Posters: Site D

GAI.05 OBSERVATIONAL CONSTRAINTS ON FIELD BEHAVIOR: (PALEO) SECULAR VARIATION, PALEOINTENSITY, REVERSAL FREQUENCY AND AGE DATING (SEDI)
Location: Site A, Room 8

GAI.09 ELECTRICAL AND ELECTROMAGNETIC STUDIES IN GEOTHERMALLY ACTIVE REGIONS
Location: Site A, Room 15

GAII.03 MEASUREMENT TECHNIQUES IN THE MIDDLE/UPPER ATMOSPHERE AND IONOSPHERE (IAGA, ICMA)
Location: Site A, Room 13

GAI.01 WHAT ARE THE CAUSES AND MECHANISMS FOR PARTICLE ACCELERATION ASSOCIATED WITH AURORA?
Location of Posters: Site D

GAI.02 WHAT ROLE DO WAVES PLAY IN TRANSPORT AND ACCELERATION OF RING CURRENT AND RADIATION BELT PARTICLES?
Location: Site A, Room 7

GAI.12 HOW DOES MULTI-POINT MONITORING PROBE MULTIPLE SPATIAL AND TEMPORAL SCALES IN THE MAGNETOSPHERE?
Location: Site A, Room 10

GAI.01 THE DYNAMIC SUN, ITS ATMOSPHERE AND WIND
Location: Site A, Room 11

GAV.01 GLOBAL GEOMAGNETIC OBSERVATORY: TOWARDS A BETTER NETWORK OF GEOMAGNETIC OBSERVATIONS
Location: Site A, Room 12

IAMAS

MI02 CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)
Location: Site B, Room 17

MI10 MODELING PRE-HOLOCENE CLIMATES (ICCI, IRC, ICACGP)
Location: Site C, Room 26

MC10 PROSPECTS FOR AND PAST EXAMPLES OF UNEXPECTED NONLINEARITIES, THRESHOLDS, AND SURPRISES IN THE CLIMATE SYSTEM (ICCI)
Location of Posters: Site D

IAPSO

P02 MARGINAL AND SEMI-ENCLOSED SEAS AND THEIR EXCHANGE WITH THE OPEN OCEAN
Location: Site C, Room 25

P03 THE ROLE OF TIDES, MESOSCALE PROCESSES, AND BOTTOM TOPOGRAPHY IN ENERGY TRANSFER AND MIXING
Location: Site B, Room 19

P05 THE PHYSICAL OCEANOGRAPHY OF THE INDIAN OCEAN
Location: Site B, Room 23

IASPEI

SS01 SEISMOLOGICAL OBSERVATION AND INTERPRETATION
Location: Site A, Room 9

IAVCEI

V10 VOLCANO STRUCTURE AND SCIENTIFIC DRILLING
Location of Posters: Site D

V12 DETECTING MAGMA CHAMBERS
Location: Site A, Room 4

Tuesday, July 1 PM

INTER-ASSOCIATION

A M

JSA02 EXTERNAL FORCING ON THE MIDDLE ATMOSPHERE AND IONOSPHERE (IAGA, IAMAS)
Location of Posters: Site D

A M

JSA03 EQUATORIAL MIDDLE ATMOSPHERE-THERMOSPHERE-IONOSPHERE DYNAMICS AND ENERGETICS (IAGA, IAMAS, SCOSTEP)
Location: Site A, Room 5
Location of Posters: Site D

M P

JSM01 TOWARD HIGH RESOLUTION CLIMATE MODELS AND EARTH SYSTEM MODELS (IAMAS, IAPSO)
Location: Site B, Room 18

A M

JSM08 ENERGETICS AND CIRCULATION OF THE MLT REGION AND ITS COUPLING WITH CIRCULATION AND CHEMISTRY OF THE THERMOSPHERE AND STRATOSPHERE (IAMAS [ICMA, ICACGP], IAGA)
Location: Site C, Room 31

M P

- JSM09 INTENSE VORTICES FROM THE SMALL SCALE TO THE PLANETARY SCALE (IAMAS [ICDM], IAPSO)**
Location: Site C, Room 29

G A H M P

- JSM13 DATA ASSIMILATION FOR ATMOSPHERIC AND OCEANIC PROCESSES (IAMAS [ICDM, ICCP], IAHS, IAPSO, IAGA, IAG, SPARC)**
Location: Site C, Room 28

H M

- JSM18 MEASUREMENT AND DISTRIBUTION OF PRECIPITATION (IAMAS [ICCP, IPCM], IAHS)**
Location: Site B, Room 20
Location of Posters: Site D

M P

- JSP01 THE DECADAL TO CENTENNIAL VARIABILITY OF THE OCEAN AND ATMOSPHERE (IAPSO, IAMAS, CLIVAR)**
Location: Site B, Room 21

G A S V

- JSS01 HAGIWARA SYMPOSIUM ON MONITORING AND MODELING OF EARTHQUAKE AND VOLCANIC PROCESSES FOR PREDICTION (IASPEI, IAVCEI, IAG, IAGA)**
Location: Site A, Room 3

G S

- JSS02 RECENT DESTRUCTIVE EARTHQUAKES (IASPEI, IAG)**
Location: Site A, Room 6

M V

- JSV02 VOLCANISM AND THE EARTH'S ATMOSPHERE (IAVCEI, IAMAS)**
Location of Posters: Site D

S V

- JSV04 RECENT ADVANCES IN QUANTITATIVE VOLCANO SEISMOLOGY (IAVCEI, IASPEI)**
Location of Posters: Site D

IAGA

- GAI.02 NATURAL MAGNETIC MINERALS: MAGNETIC PROPERTIES, CHEMISTRY AND EVOLUTION**
Location: Site A, Room 16
Location of Posters: Site D

- GAI.05 OBSERVATIONAL CONSTRAINTS ON FIELD BEHAVIOR: (PALEO) SECULAR VARIATION, PALEOINTENSITY, REVERSAL FREQUENCY AND AGE DATING (SEDI)**
Location: Site A, Room 8

- GAI.09 ELECTRICAL AND ELECTROMAGNETIC STUDIES IN GEOTHERMALLY ACTIVE REGIONS**
Location: Site A, Room 15

- GAII.02 DYNAMICS, ENERGETICS AND STRUCTURE OF THE MESOSPHERE-THERMOSPHERE-IONOSPHERE REGION**

Location of Posters: Site D

- GAII.03 MEASUREMENT TECHNIQUES IN THE MIDDLE/UPPER ATMOSPHERE AND IONOSPHERE (IAGA, ICMA)**

Location: Site A, Room 13

- GAI.02 WHAT ROLE DO WAVES PLAY IN TRANSPORT AND ACCELERATION OF RING CURRENT AND RADIATION BELT PARTICLES?**

Location: Site A, Room 7

- GAI.04 WHAT ARE THE STRUCTURES AND DYNAMICS OF THE MAGNETOPAUSE AND ITS BOUNDARY LAYERS?**

Location of Posters: Site D

- GAI.12 HOW DOES MULTI-POINT MONITORING PROBE MULTIPLE SPATIAL AND TEMPORAL SCALES IN THE MAGNETOSPHERE?**

Location: Site A, Room 10

- GAIV.01 THE DYNAMIC SUN, ITS ATMOSPHERE AND WIND**

Location: Site A, Room 11

- GAV.01 GLOBAL GEOMAGNETIC OBSERVATORY: TOWARDS A BETTER NETWORK OF GEOMAGNETIC OBSERVATIONS**

Location: Site A, Room 12

- GAV.02 GEOMAGNETIC INDICES: REAL-TIME PRODUCTION AND FORECASTING**

Location of Posters: Site D

- GAV.03 THE GEOSPACE ENVIRONMENT IN NEAR-REAL TIME: SCIENCE AND TECHNOLOGY (DIVISION V LEAD, JOINT WITH DIVISION III, INTERDIVISIONAL WG ON POLAR RESEARCH, AND CEOS)**

Location of Posters: Site D

IAMAS

- MI02 CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)**
Location: Site B, Room 17

- MC06 MESOSCALE FLOW REGIMES AND BOUNDARY LAYER PROCESSES (ICDM)**
Location: Site C, Room 26

IAPSO

- P02 MARGINAL AND SEMI-ENCLOSED SEAS AND THEIR EXCHANGE WITH THE OPEN OCEAN**
Location: Site C, Room 25
Location of Posters: Site D

- P03 THE ROLE OF TIDES, MESOSCALE PROCESSES, AND BOTTOM TOPOGRAPHY IN ENERGY TRANSFER AND MIXING**
Location: Site B, Room 19

- P04 CHEMICAL AND ISOTOPIC TRACERS IN OCEAN CIRCULATION**
Location: Site C, Room 30

IASPEI

SS01 SEISMOLOGICAL OBSERVATION AND INTERPRETATION
Location: Site A, Room 9

IAVCEI

V06 ORIGINS OF ARC MAGMA
Location of Posters: Site D

V10 VOLCANO STRUCTURE AND SCIENTIFIC DRILLING
Location: Site A, Room 1

V12 DETECTING MAGMA CHAMBERS
Location of Posters: Site D

Wednesday, July 2 AM

UNION

U2 VOLATILES IN VOLCANIC ARCS: FROM SLAB TO STRATOSPHERE
Location: Site D, Room 32

INTER-ASSOCIATION

A M

JSA02 EXTERNAL FORCING ON THE MIDDLE ATMOSPHERE AND IONOSPHERE (IAGA, IAMAS)
Location: Site A, Room 10

A M P S V

JSA11 TWENTY YEARS OF THE OCEAN DRILLING PROGRAM (IAGA, IAMAS, IAPSO, IASPEI, IAVCEI)
Location: Site A, Room 4

A M

JSM06 LAYERED PHENOMENA NEAR THE MESOPAUSE (IAMAS [ICMA], IAGA)
Location: Site B, Room 22

A M

JSM08 ENERGETICS AND CIRCULATION OF THE MLT REGION AND ITS COUPLING WITH CIRCULATION AND CHEMISTRY OF THE THERMOSPHERE AND STRATOSPHERE (IAMAS [ICMA, ICACGP], IAGA)
Location of Posters: Site D

G A H M P

JSM13 DATA ASSIMILATION FOR ATMOSPHERIC AND OCEANIC PROCESSES (IAMAS [ICDM, ICCP], IAHS, IAPSO, IAGA, IAG, SPARC)
Location: Site C, Room 28

H M P

JSM17 MIXING AND ITS PARAMETERIZATION IN GEOPHYSICAL FLUIDS (IAMAS, IAPSO, IAHS)
Location: Site C, Room 31

M P

JSP01 THE DECADAL TO CENTENNIAL VARIABILITY OF THE OCEAN AND ATMOSPHERE (IAPSO, IAMAS, CLIVAR)
Location: Site B, Room 21

G S

JSS02 RECENT DESTRUCTIVE EARTHQUAKES (IASPEI, IAG)
Location of Posters: Site D

S V

JSV04 RECENT ADVANCES IN QUANTITATIVE VOLCANO SEISMOLOGY (IAVCEI, IASPEI)
Location: Site A, Room 7

IAG

G01 POSITIONING. MEETING OF IAG SECTION I
Location: Site C, Room 24

IAGA

GAI.05 OBSERVATIONAL CONSTRAINTS ON FIELD BEHAVIOR: (PALEO) SECULAR VARIATION, PALEOINTENSITY, REVERSAL FREQUENCY AND AGE DATING (SEDI)
Location: Site A, Room 8

GAII.03 MEASUREMENT TECHNIQUES IN THE MIDDLE/UPPER ATMOSPHERE AND IONOSPHERE (IAGA, ICMA)
Location: Site A, Room 13

GAIII.03 HOW, WHEN, WHERE, AND WHY DO MAGNETIC RECONNECTION OCCUR?
Location: Site A, Room 12

GAIV.01 THE DYNAMIC SUN, ITS ATMOSPHERE AND WIND
Location: Site A, Room 6

IAMAS

MI02 CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)
Location: Site B, Room 17

MC06 MESOSCALE FLOW REGIMES AND BOUNDARY LAYER PROCESSES (ICDM)
Location: Site C, Room 26
Location of Posters: Site D

MC14 DETECTING AND ATTRIBUTING THE EARLY SIGNS OF HUMAN INFLUENCES ON THE CLIMATE (ICCI)
Location of Posters: Site D

IAPSO

P01 WESTERN BOUNDARY CURRENTS
Location: Site B, Room 18

P02 MARGINAL AND SEMI-ENCLOSED SEAS AND THEIR EXCHANGE WITH THE OPEN OCEAN
Location: Site C, Room 25

IASPEI

- SS01 SEISMOLOGICAL OBSERVATION AND INTERPRETATION**
Location: Site A, Room 9
- SS02 SEISMIC SOURCES: MODELING AND PREDICTION**
Location: Site A, Room 3

IAVCEI

- V07 SUBAQUEOUS VOLCANISM, VOLCANOGENIC SEDIMENTATION AND HYDROTHERMAL SYSTEMS**
Location of Posters: Site D
- V08 CALDERA FORMATION AND UNREST**
Location: Site A, Room 2
- V10 VOLCANO STRUCTURE AND SCIENTIFIC DRILLING**
Location: Site A, Room 1

Wednesday, July 2 PM

INTER-ASSOCIATION

A M

- JSA02 EXTERNAL FORCING ON THE MIDDLE ATMOSPHERE AND IONOSPHERE (IAGA, IAMAS)**
Location: Site A, Room 10

A S V

- JSA06 SEISMO-, VOLCANO- AND TECTONO-ELECTROMAGNETIC EFFECTS (IAGA, IASPEI, IAVCEI)**
Location of Posters: Site D

A M P S V

- JSA11 TWENTY YEARS OF THE OCEAN DRILLING PROGRAM (IAGA, IAMAS, IAPSO, IASPEI, IAVCEI)**
Location: Site A, Room 4
Location of Posters: Site D

A M

- JSM06 LAYERED PHENOMENA NEAR THE MESOPAUSE (IAMAS [ICMA], IAGA)**
Location: Site B, Room 22

G A M

- JSM07 APPLICATION OF GPS TECHNIQUES IN THE ATMOSPHERE (IAMAS [ICMA], IAGA, IAG)**
Location: Site B, Room 23
Location of Posters: Site D

M P

- JSM09 INTENSE VORTICES FROM THE SMALL SCALE TO THE PLANETARY SCALE (IAMAS [ICDM], IAPSO)**
Location of Posters: Site D

G A H M P

- JSM13 DATA ASSIMILATION FOR ATMOSPHERIC AND OCEANIC PROCESSES (IAMAS [ICDM, ICCP], IAHS, IAPSO, IAGA, IAG, SPARC)**
Location: Site C, Room 28

H M P

- JSM17 MIXING AND ITS PARAMETERIZATION IN GEOPHYSICAL FLUIDS (IAMAS, IAPSO, IAHS)**
Location: Site C, Room 31

M P

- JSP01 THE DECADAL TO CENTENNIAL VARIABILITY OF THE OCEAN AND ATMOSPHERE (IAPSO, IAMAS, CLIVAR)**
Location of Posters: Site D

M P

- JSP02 NEW PERSPECTIVES OF COUPLED TROPICAL OCEAN-ATMOSPHERE DYNAMICS AND PREDICTABILITY (IAPSO, IAMAS, CLIVAR)**
Location: Site B, Room 20

G A S V

- JWS01 IS SHORT-TERM EARTHQUAKE PREDICTION POSSIBLE? (IASPEI, IAVCEI, IAG, IAGA)**
Location of Posters: Site D

S V

- JSV03 FLOOD BASALT VOLCANISM (IAVCEI, IASPEI)**
Location of Posters: Site D

S V

- JSV04 RECENT ADVANCES IN QUANTITATIVE VOLCANO SEISMOLOGY (IAVCEI, IASPEI)**
Location: Site A, Room 7

IAG

- G01 POSITIONING. MEETING OF IAG SECTION I**
Location: Site C, Room 24

IAGA

- GAII.03 MEASUREMENT TECHNIQUES IN THE MIDDLE/UPPER ATMOSPHERE AND IONOSPHERE (IAGA, ICMA)**
Location of Posters: Site D

- GAI.03 HOW, WHEN, WHERE, AND WHY DO MAGNETIC RECONNECTION OCCUR?**
Location: Site A, Room 12

- GAIV.01 THE DYNAMIC SUN, ITS ATMOSPHERE AND WIND**
Location: Site A, Room 6
Location of Posters: Site D

- GAV.02 GEOMAGNETIC INDICES: REAL-TIME PRODUCTION AND FORECASTING**
Location: Site A, Room 11

- GADC.01 LOW LATITUDE AND EQUATORIAL ELECTROJET STUDIES FROM GROUND AND SATELLITE MAGNETIC DATA**
Location of Posters: Site D

IAMAS

MI02 CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)
Location: Site B, Room 17
Location of Posters: Site D

MC06 MESOSCALE FLOW REGIMES AND BOUNDARY LAYER PROCESSES (ICDM)
Location: Site C, Room 26

MC10 PROSPECTS FOR AND PAST EXAMPLES OF UNEXPECTED NONLINEARITIES, THRESHOLDS, AND SURPRISES IN THE CLIMATE SYSTEM (ICCI)
Location: Site C, Room 30

IAPSO

P01 WESTERN BOUNDARY CURRENTS
Location: Site B, Room 18

P02 MARGINAL AND SEMI-ENCLOSED SEAS AND THEIR EXCHANGE WITH THE OPEN OCEAN
Location: Site C, Room 25

P06 THE SOUTHERN OCEAN (SCOR, SCAR)
Location: Site B, Room 19

IASPEI

SS01 SEISMOLOGICAL OBSERVATION AND INTERPRETATION
Location: Site A, Room 9

SS02 SEISMIC SOURCES: MODELING AND PREDICTION
Location: Site A, Room 3

IAVCEI

V08 CALDERA FORMATION AND UNREST
Location: Site A, Room 2

Thursday, July 3 AM

UNION

UL3 THE IMPACT OF HUMAN ACTIVITIES ON THE ATMOSPHERE
Location: Site D, Room 32

U3 EARTH SYSTEMS AND GLOBAL CHANGE
Location: Site D, Room 32

INTER-ASSOCIATION

A S V

JSA06 SEISMO-, VOLCANO- AND TECTONO-ELECTROMAGNETIC EFFECTS (IAGA, IASPEI, IAVCEI)
Location: Site A, Room 9

H

JSH03 QUANTITATIVE APPROACHES TO HYPORHEIC FLOWS AND THEIR BIOGEOCHEMICAL CONSEQUENCES IN MARINE, ESTUARINE AND FRESHWATER SYSTEMS (IAHS, ICWQ)
Location: Site A, Room 16

M P

JSM02 THE SURFACE OCEAN-LOWER ATMOSPHERE STUDY (IAMAS [ICACGP, ICPM], IAPSO)
Location: Site B, Room 22

G A M

JSM07 APPLICATION OF GPS TECHNIQUES IN THE ATMOSPHERE (IAMAS [ICMA], IAGA, IAG)
Location: Site B, Room 23

G A H M P

JSM13 DATA ASSIMILATION FOR ATMOSPHERIC AND OCEANIC PROCESSES (IAMAS [ICDM, ICCP], IAHS, IAPSO, IAGA, IAG, SPARC)
Location: Site C, Room 28

H M P

JSM17 MIXING AND ITS PARAMETERIZATION IN GEOPHYSICAL FLUIDS (IAMAS, IAPSO, IAHS)
Location: Site C, Room 31

M P

JSP02 NEW PERSPECTIVES OF COUPLED TROPICAL OCEAN-ATMOSPHERE DYNAMICS AND PREDICTABILITY (IAPSO, IAMAS, CLIVAR)
Location: Site B, Room 20

G P

JSP05 WORLDWIDE SEA LEVEL CHANGE (IAPSO, IAG)
Location: Site C, Room 30

G A P S

JSS03 LONG-TERM IN-SITU OCEAN OBSERVATORIES AND OBSERVATIONS (IASPEI, IAG, IAGA, IAPSO, ION)
Location: Site A, Room 13

A H M P S V

JSS04 THERMALLY CONTROLLED PROCESSES WITHIN THE EARTH (IASPEI, IAVCEI, IAGA, IAPSO, IAMAS, IAHS)
Location: Site A, Room 11

IAG

G01 POSITIONING. MEETING OF IAG SECTION I
Location: Site C, Room 24

G05 GEODYNAMICS. MEETING OF IAG SECTION V
Location: Site C, Room 25

IAGA

GAI.03 ROCK MAGNETISM: THEORY, EXPERIMENTS AND MODELS (IAGA, ICMA)
Location: Site A, Room 14

GAII.02 DYNAMICS, ENERGETICS AND STRUCTURE OF THE MESOSPHERE-THERMOSPHERE-IONOSPHERE REGION
Location: Site A, Room 7

- GAIII.03 HOW, WHEN, WHERE, AND WHY DO MAGNETIC RECONNECTION OCCUR?**
Location: Site A, Room 12
- GAIII.04 WHAT ARE THE STRUCTURES AND DYNAMICS OF THE MAGNETOPAUSE AND ITS BOUNDARY LAYERS?**
Location: Site A, Room 8
- GAIV.01 THE DYNAMIC SUN, ITS ATMOSPHERE AND WIND**
Location: Site A, Room 6
- GAV.03 THE GEOSPACE ENVIRONMENT IN NEAR-REAL TIME: SCIENCE AND TECHNOLOGY (DIVISION V LEAD, JOINT WITH DIVISION III, INTERDIVISIONAL WG ON POLAR RESEARCH, AND CEOS)**
Location: Site A, Room 5
- GADC.01 LOW LATITUDE AND EQUATORIAL ELECTROJET STUDIES FROM GROUND AND SATELLITE MAGNETIC DATA**
Location: Site A, Room 10

IAMAS

- MI01 VARIATION OF THE SOLAR ENERGY OUTPUT AND ITS INFLUENCE ON CLIMATE (IRC, ICCI, ICACGP)**
Location: Site C, Room 29
- MI02 CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)**
Location: Site B, Room 17
- MC01 INTER-CONTINENTAL TRANSPORT AND GLOBAL AND REGIONAL IMPACTS OF EMISSIONS OF ATMOSPHERIC TRACE GASES AND AEROSOLS FROM DIFFERENT CONTINENTS (ICACGP)**
Location: Site C, Room 26
- MC16 UNDERSTANDING AND PREDICTING DECADAL-MULTIDECADAL VARIATIONS (ICCI)**
Location: Site C, Room 27

IAPSO

- P01 WESTERN BOUNDARY CURRENTS**
Location of Posters: Site D
- P06 THE SOUTHERN OCEAN (SCOR, SCAR)**
Location: Site B, Room 19

IASPEI

- SS01 SEISMOLOGICAL OBSERVATION AND INTERPRETATION**
Location of Posters: Site D
- SS02 SEISMIC SOURCES: MODELING AND PREDICTION**
Location: Site A, Room 3

IAVCEI

- V05 VOLCANIC FLOWS: OBSERVATION, EXPERIMENT, AND THEORY**
Location: Site A, Room 4

- V07 SUBAQUEOUS VOLCANISM, VOLCANOGENIC SEDIMENTATION AND HYDROTHERMAL SYSTEMS**
Location: Site A, Room 1
- V11 INTEGRATED MONITORING OF ACTIVE VOLCANOES**
Location: Site A, Room 2

Thursday, July 3 PM

INTER-ASSOCIATION

A S V

- JSA06 SEISMO-, VOLCANO- AND TECTONO-ELECTROMAGNETIC EFFECTS (IAGA, IASPEI, IAVCEI)**
Location: Site A, Room 9

H V

- JSH02 GROUNDWATER AND VOLCANOES (IAHS/ICGW, IAVCEI)**
Location of Posters: Site D

H

- JSH03 QUANTITATIVE APPROACHES TO HYPORHEIC FLOWS AND THEIR BIOGEOCHEMICAL CONSEQUENCES IN MARINE, ESTUARINE AND FRESHWATER SYSTEMS (IAHS, ICWQ)**
Location: Site A, Room 16

H M

- JWH02 THE ROLE OF GEWEX HYDROMETEOROLOGICAL SCIENCE IN IMPROVED WATER RESOURCES MANAGEMENT (IAHS, IAMAS)**
Location: Site A, Room 15

M P

- JSM02 THE SURFACE OCEAN-LOWER ATMOSPHERE STUDY (IAMAS [ICACGP, ICPM], IAPSO)**
Location: Site B, Room 22

G A M

- JSM07 APPLICATION OF GPS TECHNIQUES IN THE ATMOSPHERE (IAMAS [ICMA], IAGA, IAG)**
Location: Site B, Room 23

G A H M P

- JSM13 DATA ASSIMILATION FOR ATMOSPHERIC AND OCEANIC PROCESSES (IAMAS [ICDM, ICCP], IAHS, IAPSO, IAGA, IAG, SPARC)**
Location: Site C, Room 28

H M P

- JSM17 MIXING AND ITS PARAMETERIZATION IN GEOPHYSICAL FLUIDS (IAMAS, IAPSO, IAHS)**
Location: Site C, Room 31

M P

- JSP02 NEW PERSPECTIVES OF COUPLED TROPICAL OCEAN-ATMOSPHERE DYNAMICS AND PREDICTABILITY (IAPSO, IAMAS, CLIVAR)**
Location: Site B, Room 20
Location of Posters: Site D

G P

- JSP05 WORLDWIDE SEA LEVEL CHANGE (IAPSO, IAG)**
Location: Site C, Room 30

G A P S

- JSS03 LONG-TERM IN-SITU OCEAN OBSERVATORIES AND OBSERVATIONS (IASPEI, IAG, IAGA, IAPSO, ION)**
Location: Site A, Room 13

A H M P S V

- JSS04 THERMALLY CONTROLLED PROCESSES WITHIN THE EARTH (IASPEI, IAVCEI, IAGA, IAPSO, IAMAS, IAHS)**
Location: Site A, Room 11

A S V

- JSS05 PHYSICS AND CHEMISTRY OF EARTH MATERIALS (IASPEI, IAVCEI, IAGA)**
Location: Site A, Room 4
Location of Posters: Site D

IAG

- G01 POSITIONING. MEETING OF IAG SECTION I**
Location of Posters: Site D
- G06 INSIGHT INTO EARTH SYSTEM SCIENCE: VARIATIONS IN THE EARTH'S ROTATION AND ITS GRAVITY FIELD. MEETING OF SECTION III + V**
Location: Site C, Room 25

IAGA

- GAI.03 ROCK MAGNETISM: THEORY, EXPERIMENTS AND MODELS (IAGA, ICMA)**
Location: Site A, Room 14
Location of Posters: Site D
- GAII.02 DYNAMICS, ENERGETICS AND STRUCTURE OF THE MESOSPHERE-THERMOSPHERE-IONOSPHERE REGION**
Location: Site A, Room 7
- GAI.03 HOW, WHEN, WHERE, AND WHY DO MAGNETIC RECONNECTION OCCUR?**
Location of Posters: Site D
- GAI.04 WHAT ARE THE STRUCTURES AND DYNAMICS OF THE MAGNETOPAUSE AND ITS BOUNDARY LAYERS?**
Location: Site A, Room 8
- GAIV.02 COUPLING COMPLEXITY IN THE HELIOSPHERE**
Location: Site A, Room 6

- GAV.03 THE GEOSPACE ENVIRONMENT IN NEAR-REAL TIME: SCIENCE AND TECHNOLOGY (DIVISION V LEAD, JOINT WITH DIVISION III, INTERDIVISIONAL WG ON POLAR RESEARCH, AND CEOS)**
Location: Site A, Room 5

IAMAS

- MI01 VARIATION OF THE SOLAR ENERGY OUTPUT AND ITS INFLUENCE ON CLIMATE (IRC, ICCI, ICACGP)**
Location: Site C, Room 29
Location of Posters: Site D
- MI02 CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)**
Location: Site B, Room 17
- MC01 INTER-CONTINENTAL TRANSPORT AND GLOBAL AND REGIONAL IMPACTS OF EMISSIONS OF ATMOSPHERIC TRACE GASES AND AEROSOLS FROM DIFFERENT CONTINENTS (ICACGP)**
Location: Site C, Room 26
Location of Posters: Site D
- MC16 UNDERSTANDING AND PREDICTING DECADEAL-MULTIDECADAL VARIATIONS (ICCI)**
Location: Site C, Room 27

IAPSO

- P01 WESTERN BOUNDARY CURRENTS**
Location: Site B, Room 18
- P06 THE SOUTHERN OCEAN (SCOR, SCAR)**
Location of Posters: Site D

IASPEI

- SS02 SEISMIC SOURCES: MODELING AND PREDICTION**
Location: Site A, Room 3

IAVCEI

- V05 VOLCANIC FLOWS: OBSERVATION, EXPERIMENT, AND THEORY**
Location of Posters: Site D
- V07 SUBAQUEOUS VOLCANISM, VOLCANOGENIC SEDIMENTATION AND HYDROTHERMAL SYSTEMS**
Location: Site A, Room 1
- V08 CALDERA FORMATION AND UNREST**
Location: Site A, Room 2
- V11 INTEGRATED MONITORING OF ACTIVE VOLCANOES**
Location of Posters: Site D

Friday, July 4 AM**UNION**

- U4 GEOPHYSICAL RISK AND SUSTAINABILITY ON A CROWDED PLANET**
Location: Site D, Room 32

INTER-ASSOCIATION

A S V

- JSA06 SEISMO-, VOLCANO- AND TECTONO-ELECTROMAGNETIC EFFECTS (IAGA, IASPEI, IAVCEI)**
Location: Site A, Room 9

H V

- JSH02 GROUNDWATER AND VOLCANOES (IAHS/ICGW, IAVCEI)**
Location: Site A, Room 16

H M

- JWH02 THE ROLE OF GEWEX HYDROMETEOROLOGICAL SCIENCE IN IMPROVED WATER RESOURCES MANAGEMENT (IAHS, IAMAS)**
Location: Site A, Room 15

M P

- JSM02 THE SURFACE OCEAN-LOWER ATMOSPHERE STUDY (IAMAS [ICACGP, ICPM], IAPSO)**
Location: Site B, Room 22

A M

- JSM05 SOLAR EFFECTS IN THE MIDDLE ATMOSPHERE AND IONOSPHERE (IAMAS [ICMA/IRC], IAGA, SCOSTEP)**
Location: Site C, Room 28

H M

- JSM12 THE TREATMENT OF PRECIPITATION IN CLOUD AND CLIMATE MODELS (IAMAS [ICCP, ICCL], IAHS)**
Location: Site B, Room 23

H M

- JSM16 THE ROLE OF ATMOSPHERIC PROCESSES IN MASS BALANCE EXCHANGE IN THE POLAR REGIONS (IAMAS [ICPM, ICDM], IAHS)**
Location: Site C, Room 31

M P

- JSP02 NEW PERSPECTIVES OF COUPLED TROPICAL OCEAN-ATMOSPHERE DYNAMICS AND PREDICTABILITY (IAPSO, IAMAS, CLIVAR)**
Location: Site B, Room 20

H P

- JSP03 GROUNDWATER INPUTS TO THE OCEAN (IAPSO, IAHS)**
Location: Site C, Room 29

G P

- JSP05 WORLDWIDE SEA LEVEL CHANGE (IAPSO, IAG)**
Location: Site C, Room 30

G A P S

- JSS03 LONG-TERM IN-SITU OCEAN OBSERVATORIES AND OBSERVATIONS (IASPEI, IAG, IAGA, IAPSO, ION)**
Location of Posters: Site D

A S V

- JSS05 PHYSICS AND CHEMISTRY OF EARTH MATERIALS (IASPEI, IAVCEI, IAGA)**
Location: Site A, Room 4

A H M P S V

- JWS04 SUBSURFACE THERMAL SIGNATURES OF TECTONICS, HYDROGEOLOGY AND PALEOCLIMATE (IASPEI, IAVCEI, IAGA, IAPSO, IAMAS, IAHS)**
Location: Site A, Room 11

IAG

- G03 DETERMINATION OF THE GRAVITY FIELD. MEETING OF IAG SECTION III**
Location: Site C, Room 24

- G05 GEODYNAMICS. MEETING OF IAG SECTION V**
Location: Site C, Room 25

IAGA

- GAI.06 PALEOMAGNETISM AND FABRICS: REGIONAL AND GLOBAL GEODYNAMICAL CHALLENGES**
Location: Site A, Room 10

- GAII.03 MEASUREMENT TECHNIQUES IN THE MIDDLE/UPPER ATMOSPHERE AND IONOSPHERE (IAGA, ICMA)**
Location: Site A, Room 13

- GAI.13 REPORTER REVIEWS**
Location: Site A, Room 2

- GAIV.02 COUPLING COMPLEXITY IN THE HELIOSPHERE**
Location: Site A, Room 6

- GAV.03 THE GEOSPACE ENVIRONMENT IN NEAR-REAL TIME: SCIENCE AND TECHNOLOGY (DIVISION V LEAD, JOINT WITH DIVISION III, INTERDIVISIONAL WG ON POLAR RESEARCH, AND CEOS)**
Location: Site A, Room 7

- GADC.02 SPACE WEATHER EFFECTS AT EQUATORIAL AND LOW LATITUDE**
Location: Site A, Room 8

IAMAS

- MC01 INTER-CONTINENTAL TRANSPORT AND GLOBAL AND REGIONAL IMPACTS OF EMISSIONS OF ATMOSPHERIC TRACE GASES AND AEROSOLS FROM DIFFERENT CONTINENTS (ICACGP)**
Location: Site C, Room 26

- MC05 MIDDLE ATMOSPHERE SCIENCE (ICMA)**
Location: Site B, Room 21

**MC16 UNDERSTANDING AND PREDICTING
DECADAL-MULTIDECADAL VARIATIONS (ICCI)**
Location: Site C, Room 27

IAPSO

P01 WESTERN BOUNDARY CURRENTS
Location: Site B, Room 18

P06 THE SOUTHERN OCEAN (SCOR, SCAR)
Location: Site B, Room 19

IASPEI

**SS02 SEISMIC SOURCES: MODELING AND
PREDICTION**
Location of Posters: Site D

**SS03 TECTONOPHYSICS AND CRUSTAL
STRUCTURE**
Location: Site A, Room 3

IAVCEI

**V05 VOLCANIC FLOWS: OBSERVATION,
EXPERIMENT, AND THEORY**
Location: Site A, Room 1

V08 CALDERA FORMATION AND UNREST
Location of Posters: Site D

**V09 REASSESSING THE VOLCANIC PLUTONIC
LINK**
Location: Site A, Room 12

**V11 INTEGRATED MONITORING OF ACTIVE
VOLCANOES**
Location: Site A, Room 5

V13 ASSESSING VOLCANIC RISK
Location of Posters: Site D

Friday, July 4 PM

INTER-ASSOCIATION

A S V

**JSA06 SEISMO-, VOLCANO- AND TECTONO-
ELECTROMAGNETIC EFFECTS (IAGA, IASPEI,
IAVCEI)**
Location: Site A, Room 9

H V

**JSH02 GROUNDWATER AND VOLCANOES
(IAHS/ICGW, IAVCEI)**
Location: Site A, Room 16

H

**JSH03 QUANTITATIVE APPROACHES TO HYPORHEIC
FLOWS AND THEIR BIOGEOCHEMICAL
CONSEQUENCES IN MARINE, ESTUARINE AND
FRESHWATER SYSTEMS (IAHS, ICWQ)**
Location of Posters: Site D

H M

**JWH02 THE ROLE OF GEWEX
HYDROMETEOROLOGICAL SCIENCE IN
IMPROVED WATER RESOURCES
MANAGEMENT (IAHS, IAMAS)**
Location: Site A, Room 15
Location of Posters: Site D

M P

**JSM02 THE SURFACE OCEAN-LOWER ATMOSPHERE
STUDY (IAMAS [ICACGP, ICPM], IAPSO)**
Location: Site B, Room 22
Location of Posters: Site D

A M

**JSM05 SOLAR EFFECTS IN THE MIDDLE
ATMOSPHERE AND IONOSPHERE (IAMAS
[ICMA/IRC], IAGA, SCOSTEP)**
Location: Site C, Room 28
Location of Posters: Site D

H M

**JSM12 THE TREATMENT OF PRECIPITATION IN
CLOUD AND CLIMATE MODELS (IAMAS [ICCP,
ICCL], IAHS)**
Location: Site B, Room 23

H M

**JSM16 THE ROLE OF ATMOSPHERIC PROCESSES IN
MASS BALANCE EXCHANGE IN THE POLAR
REGIONS (IAMAS [ICPM, ICDM], IAHS)**
Location: Site C, Room 31

M P

**JSP02 NEW PERSPECTIVES OF COUPLED TROPICAL
OCEAN-ATMOSPHERE DYNAMICS AND
PREDICTABILITY (IAPSO, IAMAS, CLIVAR)**
Location: Site B, Room 20

H P

**JSP03 GROUNDWATER INPUTS TO THE OCEAN
(IAPSO, IAHS)**
Location: Site C, Room 29
Location of Posters: Site D

A H M P S V

**JSS04 THERMALLY CONTROLLED PROCESSES
WITHIN THE EARTH (IASPEI, IAVCEI, IAGA,
IAPSO, IAMAS, IAHS)**
Location of Posters: Site D

A S V

**JSS05 PHYSICS AND CHEMISTRY OF EARTH
MATERIALS (IASPEI, IAVCEI, IAGA)**
Location: Site A, Room 4

A H M P S V

**JWS04 SUBSURFACE THERMAL SIGNATURES OF
TECTONICS, HYDROGEOLOGY AND
PALEOCLIMATE (IASPEI, IAVCEI, IAGA, IAPSO,
IAMAS, IAHS)**
Location of Posters: Site D

IAG

- G02 ADVANCED SPACE TECHNOLOGY. MEETING OF IAG SECTION II**
Location: Site C, Room 25
- G03 DETERMINATION OF THE GRAVITY FIELD. MEETING OF IAG SECTION III**
Location: Site C, Room 24
- G05 GEODYNAMICS. MEETING OF IAG SECTION V**
Location of Posters: Site D
- G06 INSIGHT INTO EARTH SYSTEM SCIENCE: VARIATIONS IN THE EARTH'S ROTATION AND ITS GRAVITY FIELD. MEETING OF SECTION III + V**
Location of Posters: Site D

IAGA

- GAI.06 PALEOMAGNETISM AND FABRICS: REGIONAL AND GLOBAL GEODYNAMICAL CHALLENGES**
Location of Posters: Site D
- GAII.03 MEASUREMENT TECHNIQUES IN THE MIDDLE/UPPER ATMOSPHERE AND IONOSPHERE (IAGA, ICMA)**
Location: Site A, Room 13
- GAI.13 REPORTER REVIEWS**
Location: Site A, Room 2
- GAI.02 COUPLING COMPLEXITY IN THE HELIOSPHERE**
Location: Site A, Room 6
- GAV.03 THE GEOSPACE ENVIRONMENT IN NEAR-REAL TIME: SCIENCE AND TECHNOLOGY (DIVISION V LEAD, JOINT WITH DIVISION III, INTERDIVISIONAL WG ON POLAR RESEARCH, AND CEOS)**
Location: Site A, Room 7
- GADC.02 SPACE WEATHER EFFECTS AT EQUATORIAL AND LOW LATITUDE**
Location of Posters: Site D

IAMAS

- MC05 MIDDLE ATMOSPHERE SCIENCE (ICMA)**
Location: Site B, Room 21

IAPSO

- P01 WESTERN BOUNDARY CURRENTS**
Location: Site B, Room 18
- P06 THE SOUTHERN OCEAN (SCOR, SCAR)**
Location: Site B, Room 19

IASPEI

- SS03 TECTONOPHYSICS AND CRUSTAL STRUCTURE**
Location: Site A, Room 3

IAVCEI

- V05 VOLCANIC FLOWS: OBSERVATION, EXPERIMENT, AND THEORY**
Location of Posters: Site D

- V13 ASSESSING VOLCANIC RISK**
Location: Site A, Room 1

Saturday, July 5 AM

INTER-ASSOCIATION

H M

- JSM15 SPECIAL NAKAYA-MAGONO CELEBRATION: THE GROWTH OF ICE CRYSTALS AND SNOW (IAMAS [ICCP, ICPM], IAHS)**
Location: Site A, Room 9

IAG

- G02 ADVANCED SPACE TECHNOLOGY. MEETING OF IAG SECTION II**
Location: Site A, Room 1
- G03 DETERMINATION OF THE GRAVITY FIELD. MEETING OF IAG SECTION III**
Location: Site A, Room 3

Monday, July 7 AM

UNION

- UL5 MODELING OF THE EARTH'S DYNAMO**
Location: Site D, Room 32
- U5 STRUCTURE AND DYNAMICS OF THE EARTH'S INTERIOR**
Location: Site D, Room 32

INTER-ASSOCIATION

G S

- JSG01 SECULAR, TRANSIENT AND PERIODIC CRUSTAL MOVEMENTS AND THEIR GEOPHYSICAL IMPLICATIONS (IAG, IASPEI)**
Location: Site A, Room 1

H M P

- JSH01 THE REMOTE SENSING OF THE CRYOSPHERE (IAHS [ICSI, ICRS], IAMAS, IAPSO)**
Location: Site C, Room 27

H M P

- JSM10 CRYOSPHERE-CLIMATE INTERACTIONS (IAMAS [ICCL, ICPM], IAPSO, IAHS)**
Location: Site B, Room 23

H M

- JSM14 DYNAMICS AND PREDICTABILITY OF SEVERE WEATHER EVENTS (IAMAS [ICDM, ICCP], IAHS)**
Location: Site A, Room 5

H M

- JSM15 SPECIAL NAKAYA-MAGONO CELEBRATION: THE GROWTH OF ICE CRYSTALS AND SNOW (IAMAS [ICCP, ICPM], IAHS)**
Location: Site B, Room 18

G P

JSP06 THE GLOBAL OCEAN OBSERVING SYSTEM (IAPSO, IAG, IOC)
Location: Site B, Room 21

A H M P S V

JSP11 GEOPHYSICAL RISK AND VULNERABILITY: THE POPULATION-HAZARD INTERACTION (IAPSO, IAGA, IAHS, IAMAS, IASPEI, IAVCEI)
Location: Site A, Room 10

IAG

G02 ADVANCED SPACE TECHNOLOGY. MEETING OF IAG SECTION II
Location: Site C, Room 25

IAGA

GAII.04 LIGHTNING-INDUCED TRANSIENT PROCESSES IN THE MIDDLE AND UPPER ATMOSPHERE AND THEIR IMPACT ON THE EARTH SYSTEM
Location: Site A, Room 8

GAII.05 DATA ASSIMILATION TECHNIQUES FOR THE IONOSPHERE-THERMOSPHERE-MAGNETOSPHERE SYSTEM
Location of Posters: Site D

GAIII.05 WHAT ARE THE STRUCTURES IN THE MAGNETOTAIL, WHY ARE THEY THERE, AND HOW DO THEY INFLUENCE ITS DYNAMICS
Location: Site A, Room 6

GAIII.14 HOW DO THE MAGNETOSPHERES OF OTHER PLANETS AND THEIR SATELLITES COMPARE WITH THE EARTH'S MAGNETOSPHERE?
Location: Site A, Room 12

GAIV.02 COUPLING COMPLEXITY IN THE HELIOSPHERE
Location: Site A, Room 7

GAV.04 INTERNATIONAL DECADE OF GEOPOTENTIAL FIELD RESEARCH: FIRST FIVE YEARS - ADVANCES IN THE UNDERSTANDING THE GEOMAGNETIC FIELD (SEDI)
Location: Site A, Room 11
Location of Posters: Site D

IAHS

HS02 WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)
Location: Site C, Room 24

HS03 WEATHER RADAR INFORMATION AND DISTRIBUTED HYDROLOGICAL MODELING (ICSW)
Location: Site C, Room 26

HS04 METHODOLOGIES FOR RISK ASSESSMENT OF WASTE WATER RE-USE ON GROUNDWATER QUALITY (ICWQ)
Location: Site C, Room 30

HW06 ISOTOPE TRACERS IN WATER CYCLE MODELS (IAHS/ICT, IAEA)
Location: Site C, Room 31

HW08 PARAMETER ESTIMATION TECHNIQUES (IAHS/WMO WORKING GROUP ON GEWEX WITH THE SUPPORT OF ICSW AND ICASVR)
Location: Site C, Room 28

IAMAS

MC02 TYPHOONS IN ASIA: THEIR UNIQUE FEATURES (ICDM)
Location: Site B, Room 20

MC05 MIDDLE ATMOSPHERE SCIENCE (ICMA)
Location: Site A, Room 9

MC08 FUTURE CHANGES IN GLOBAL AND REGIONAL CLIMATE (ICDCI)
Location: Site B, Room 17

MC12 THE CLIMATE OF THE HOLOCENE (ICCI)
Location: Site B, Room 19

IASPEI

SS03 TECTONOPHYSICS AND CRUSTAL STRUCTURE
Location: Site A, Room 2

SS04 STRONG GROUND MOTION, EARTHQUAKE HAZARD AND RISK
Location: Site A, Room 3

Monday, July 7 PM

INTER-ASSOCIATION**G S**

JSG01 SECULAR, TRANSIENT AND PERIODIC CRUSTAL MOVEMENTS AND THEIR GEOPHYSICAL IMPLICATIONS (IAG, IASPEI)
Location: Site A, Room 1

H M P

JSH01 THE REMOTE SENSING OF THE CRYOSPHERE (IAHS [ICSI, ICRS], IAMAS, IAPSO)
Location: Site C, Room 27

H M P

JSM10 CRYOSPHERE-CLIMATE INTERACTIONS (IAMAS [ICCL, ICPM], IAPSO, IAHS)
Location: Site B, Room 23

H M

JSM14 DYNAMICS AND PREDICTABILITY OF SEVERE WEATHER EVENTS (IAMAS [ICDM, ICCP], IAHS)
Location: Site A, Room 5

H M

JSM15 SPECIAL NAKAYA-MAGONO CELEBRATION: THE GROWTH OF ICE CRYSTALS AND SNOW (IAMAS [ICCP, ICPM], IAHS)
Location of Posters: Site D

G P

- JSP06 THE GLOBAL OCEAN OBSERVING SYSTEM (IAPSO, IAG, IOC)**
Location: Site B, Room 21
Location of Posters: Site D

A H M P S V

- JSP11 GEOPHYSICAL RISK AND VULNERABILITY: THE POPULATION-HAZARD INTERACTION (IAPSO, IAGA, IAHS, IAMAS, IASPEI, IAVCEI)**
Location: Site A, Room 10

G A S V

- JSS06 EARTH STRUCTURE AND GEODYNAMICS (IASPEI, IAVCEI, IAG, IAGA)**
Location: Site A, Room 4

IAG

- G03 DETERMINATION OF THE GRAVITY FIELD. MEETING OF IAG SECTION III**
Location of Posters: Site D
- G04 GENERAL THEORY AND METHODOLOGY. MEETING OF IAG SECTION IV**
Location: Site C, Room 25

IAGA

- GAI.04 LIGHTNING-INDUCED TRANSIENT PROCESSES IN THE MIDDLE AND UPPER ATMOSPHERE AND THEIR IMPACT ON THE EARTH SYSTEM**
Location: Site A, Room 8
- GAI.05 WHAT ARE THE STRUCTURES IN THE MAGNETOTAIL, WHY ARE THEY THERE, AND HOW DO THEY INFLUENCE ITS DYNAMICS**
Location of Posters: Site D
- GAI.06 HOW IS THE INNER MAGNETOSPHERE DYNAMICALLY COUPLED TO OTHER REGIONS OF GEOSPACE?**
Location of Posters: Site D
- GAI.14 HOW DO THE MAGNETOSPHERES OF OTHER PLANETS AND THEIR SATELLITES COMPARE WITH THE EARTH'S MAGNETOSPHERE?**
Location: Site A, Room 12
- GAIV.02 COUPLING COMPLEXITY IN THE HELIOSPHERE**
Location: Site A, Room 7
- GAV.04 INTERNATIONAL DECADE OF GEOPOTENTIAL FIELD RESEARCH: FIRST FIVE YEARS - ADVANCES IN THE UNDERSTANDING THE GEOMAGNETIC FIELD (SEDI)**
Location: Site A, Room 11
- GAV.07 MAGNETIC ANOMALIES AND ROCK PROPERTIES**
Location: Site A, Room 13
Location of Posters: Site D

IAHS

- HS02 WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)**
Location: Site C, Room 24
Location of Posters: Site D
- HS03 WEATHER RADAR INFORMATION AND DISTRIBUTED HYDROLOGICAL MODELING (ICSW)**
Location: Site C, Room 26
- HS04 METHODOLOGIES FOR RISK ASSESSMENT OF WASTE WATER RE-USE ON GROUNDWATER QUALITY (ICWQ)**
Location: Site C, Room 30
- HW06 ISOTOPE TRACERS IN WATER CYCLE MODELS (IAHS/ICT, IAEA)**
Location: Site C, Room 31
Location of Posters: Site D
- HW08 PARAMETER ESTIMATION TECHNIQUES (IAHS/WMO WORKING GROUP ON GEWEX WITH THE SUPPORT OF ICSW AND ICASVR)**
Location: Site C, Room 28

IAMAS

- MI08 LABORATORY STUDIES ON ATMOSPHERIC ISSUES (ICCP, ICACGP, IRC)**
Location: Site B, Room 18
Location of Posters: Site D
- MC02 TYPHOONS IN ASIA: THEIR UNIQUE FEATURES (ICDM)**
Location: Site B, Room 20
Location of Posters: Site D
- MC05 MIDDLE ATMOSPHERE SCIENCE (ICMA)**
Location: Site A, Room 9
Location of Posters: Site D
- MC08 FUTURE CHANGES IN GLOBAL AND REGIONAL CLIMATE (ICDCI)**
Location: Site B, Room 17
- MC12 THE CLIMATE OF THE HOLOCENE (ICCI)**
Location: Site B, Room 19

IASPEI

- SS03 TECTONOPHYSICS AND CRUSTAL STRUCTURE**
Location: Site A, Room 2
- SS04 STRONG GROUND MOTION, EARTHQUAKE HAZARD AND RISK**
Location: Site A, Room 3

Tuesday, July 8 AM**INTER-ASSOCIATION****G S**

- JSG01 SECULAR, TRANSIENT AND PERIODIC CRUSTAL MOVEMENTS AND THEIR GEOPHYSICAL IMPLICATIONS (IAG, IASPEI)**
Location: Site A, Room 1

A M

JSA01 LONG-TERM TRENDS IN THE MESOSPHERE, THERMOSPHERE AND IONOSPHERE (IAGA, IAMAS)
Location: Site A, Room 12

H M P

JSH01 THE REMOTE SENSING OF THE CRYOSPHERE (IAHS [ICSI, ICRS], IAMAS, IAPSO)
Location: Site C, Room 27

H M P

JSM03 LAND-OCEAN-ATMOSPHERE INTERACTIONS IN THE COASTAL ZONE (IAMAS, IAPSO, IAHS)
Location: Site A, Room 13

H M P

JSM10 CRYOSPHERE-CLIMATE INTERACTIONS (IAMAS [ICCL, ICPM], IAPSO, IAHS)
Location: Site B, Room 23

H M

JSM14 DYNAMICS AND PREDICTABILITY OF SEVERE WEATHER EVENTS (IAMAS [ICDM, ICCP], IAHS)
Location: Site A, Room 5

G P

JSP06 THE GLOBAL OCEAN OBSERVING SYSTEM (IAPSO, IAG, IOC)
Location: Site B, Room 21

G P

JSP07 THE COASTAL OCEAN OBSERVING SYSTEM (IAPSO, IAG, IOC)
Location: Site B, Room 17

A H M P S V

JSP11 GEOPHYSICAL RISK AND VULNERABILITY: THE POPULATION-HAZARD INTERACTION (IAPSO, IAGA, IAHS, IAMAS, IASPEI, IAVCEI)
Location: Site A, Room 10

G A S V

JSS06 EARTH STRUCTURE AND GEODYNAMICS (IASPEI, IAVCEI, IAG, IAGA)
Location: Site A, Room 4

IAG

G04 GENERAL THEORY AND METHODOLOGY. MEETING OF IAG SECTION IV
Location: Site C, Room 25

IAGA

GAI.08 CONDUCTIVITY OF CRUST AND MANTLE: RELATION TO GEODYNAMICS (SEDI)
Location: Site A, Room 14

GAII.05 DATA ASSIMILATION TECHNIQUES FOR THE IONOSPHERE-THERMOSPHERE-MAGNETOSPHERE SYSTEM
Location: Site A, Room 15

GAI.05 WHAT ARE THE STRUCTURES IN THE MAGNETOTAIL, WHY ARE THEY THERE, AND HOW DO THEY INFLUENCE ITS DYNAMICS
Location: Site A, Room 6

GAI.06 HOW IS THE INNER MAGNETOSPHERE DYNAMICALLY COUPLED TO OTHER REGIONS OF GEOSPACE?
Location: Site A, Room 2

GAI.14 HOW DO THE MAGNETOSPHERES OF OTHER PLANETS AND THEIR SATELLITES COMPARE WITH THE EARTH'S MAGNETOSPHERE?
Location of Posters: Site D

GAIV.03 MARS: MAGNETISM AND INTERACTION WITH THE SOLAR WIND
Location: Site A, Room 16

GAV.05 MODELING THE EARTH'S MAGNETIC FIELD ON GLOBAL AND REGIONAL SCALES (SEDI)
Location: Site A, Room 11

IAHS

HS01 EROSION PREDICTION OF UNGAUGED BASINS (PUBS): INTEGRATING METHODS AND TECHNIQUES (ICCE, ICRS AND ALL IAHS COMMISSIONS)
Location: Site C, Room 29

HS02 WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)
Location: Site C, Room 24

HS03 WEATHER RADAR INFORMATION AND DISTRIBUTED HYDROLOGICAL MODELING (ICSW)
Location: Site C, Room 26

HS04 METHODOLOGIES FOR RISK ASSESSMENT OF WASTE WATER RE-USE ON GROUNDWATER QUALITY (ICWQ)
Location: Site C, Room 30

HW06 ISOTOPE TRACERS IN WATER CYCLE MODELS (IAHS/ICT, IAEA)
Location: Site C, Room 31

HW08 PARAMETER ESTIMATION TECHNIQUES (IAHS/WMO WORKING GROUP ON GEWEX WITH THE SUPPORT OF ICSW AND ICASVR)
Location: Site C, Room 28

IAMAS

MI03 CHEMISTRY-CLIMATE INTERACTIONS (COVERS OZONE INTERACTIONS) (ICACGP, IOC, ICCI)
Location: Site B, Room 18

MI06 THE DYNAMICS OF MID-LATITUDE AND POLAR WEATHER SYSTEMS OVER THE OPEN OCEAN (ICPM, ICDM)
Location of Posters: Site D

MC02 TYPHOONS IN ASIA: THEIR UNIQUE FEATURES (ICDM)

Location: Site B, Room 20

MC05 MIDDLE ATMOSPHERE SCIENCE (ICMA)

Location: Site A, Room 9

MC12 THE CLIMATE OF THE HOLOCENE (ICCI)

Location: Site B, Room 19

IASPEI

SS03 TECTONOPHYSICS AND CRUSTAL STRUCTURE

Location of Posters: Site D

SS04 STRONG GROUND MOTION, EARTHQUAKE HAZARD AND RISK

Location: Site A, Room 3

Tuesday, July 8 PM

INTER-ASSOCIATION

G S

JSG01 SECULAR, TRANSIENT AND PERIODIC CRUSTAL MOVEMENTS AND THEIR GEOPHYSICAL IMPLICATIONS (IAG, IASPEI)

Location of Posters: Site D

A M

JSA01 LONG-TERM TRENDS IN THE MESOSPHERE, THERMOSPHERE AND IONOSPHERE (IAGA, IAMAS)

Location: Site A, Room 12

H M P

JSH01 THE REMOTE SENSING OF THE CRYOSPHERE (IAHS [ICSI, ICRS], IAMAS, IAPSO)

Location of Posters: Site D

H M P

JSM03 LAND-OCEAN-ATMOSPHERE INTERACTIONS IN THE COASTAL ZONE (IAMAS, IAPSO, IAHS)

Location: Site A, Room 13

H M P

JSM10 CRYOSPHERE-CLIMATE INTERACTIONS (IAMAS [ICCL, ICPM], IAPSO, IAHS)

Location: Site B, Room 23

H M

JSM14 DYNAMICS AND PREDICTABILITY OF SEVERE WEATHER EVENTS (IAMAS [ICDM, ICCP], IAHS)

Location: Site A, Room 5

G P

JSP07 THE COASTAL OCEAN OBSERVING SYSTEM (IAPSO, IAG, IOC)

Location: Site B, Room 17

Location of Posters: Site D

A M P

JSP10 ROTATING AND STRATIFIED FLUIDS (IAPSO, IAGA, IAMAS, SEDI)

Location: Site B, Room 21

Location of Posters: Site D

A H M P S V

JSP11 GEOPHYSICAL RISK AND VULNERABILITY: THE POPULATION-HAZARD INTERACTION (IAPSO, IAGA, IAHS, IAMAS, IASPEI, IAVCEI)

Location of Posters: Site D

G A S V

JSS06 EARTH STRUCTURE AND GEODYNAMICS (IASPEI, IAVCEI, IAG, IAGA)

Location of Posters: Site D

IAG

G04 GENERAL THEORY AND METHODOLOGY. MEETING OF IAG SECTION IV

Location: Site C, Room 25

Location of Posters: Site D

IAGA

GAI.08 CONDUCTIVITY OF CRUST AND MANTLE: RELATION TO GEODYNAMICS (SEDI)

Location of Posters: Site D

GAII.05 DATA ASSIMILATION TECHNIQUES FOR THE IONOSPHERE-THERMOSPHERE-MAGNETOSPHERE SYSTEM

Location: Site A, Room 15

GAIII.06 HOW IS THE INNER MAGNETOSPHERE DYNAMICALLY COUPLED TO OTHER REGIONS OF GEOSPACE?

Location: Site A, Room 2

GAIV.03 MARS: MAGNETISM AND INTERACTION WITH THE SOLAR WIND

Location: Site A, Room 16

GAV.05 MODELING THE EARTH'S MAGNETIC FIELD ON GLOBAL AND REGIONAL SCALES (SEDI)

Location: Site A, Room 11

IAHS

HS01 EROSION PREDICTION OF UNGAUGED BASINS (PUBS): INTEGRATING METHODS AND TECHNIQUES (ICCE, ICRS AND ALL IAHS COMMISSIONS)

Location: Site C, Room 29

HS02 WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)

Location: Site C, Room 24

HS03 WEATHER RADAR INFORMATION AND DISTRIBUTED HYDROLOGICAL MODELING (ICSW)

Location: Site C, Room 26

HW08 **PARAMETER ESTIMATION TECHNIQUES
(IAHS/WMO WORKING GROUP ON GEWEX
WITH THE SUPPORT OF ICSW AND ICASVR)**
Location: Site C, Room 28

IAMAS

MI03 **CHEMISTRY-CLIMATE INTERACTIONS
(COVERS OZONE INTERACTIONS) (ICACGP,
IOC, ICCI)**
Location: Site B, Room 18

MI09 **NEW INSTRUMENTS AND TECHNOLOGY,
ADVANCES IN REMOTE SENSING**
Location: Site B, Room 22
Location of Posters: Site D

MC02 **TYPHOONS IN ASIA: THEIR UNIQUE
FEATURES (ICDM)**
Location: Site B, Room 20

MC05 **MIDDLE ATMOSPHERE SCIENCE (ICMA)**
Location: Site A, Room 9

MC08 **FUTURE CHANGES IN GLOBAL AND
REGIONAL CLIMATE (ICDCI)**
Location of Posters: Site D

MC12 **THE CLIMATE OF THE HOLOCENE (ICCI)**
Location: Site B, Room 19

IASPEI

SS04 **STRONG GROUND MOTION, EARTHQUAKE
HAZARD AND RISK**
Location: Site A, Room 3

Wednesday, July 9 AM

UNION

UL6 **THE GRAVITY FIELD OF THE EARTH
DETERMINED BY NEW SATELLITE MISSIONS**
Location: Site D, Room 32

U6 **NEW SENSORS OF OUR PLANET. WHAT IS
POSSIBLE**
Location: Site D, Room 32

INTER-ASSOCIATION

G H P S

JSG02 **INTERDISCIPLINARY EARTH SCIENCE FROM
IMPROVED GRAVITY FIELD MODELING (IAG,
IAHS, IAPSO, IASPEI)**
Location of Posters: Site D

A M

JSA08 **EFFECTS OF SOLAR VARIABILITY ON
CLIMATE CHANGE (IAGA, IAMAS)**
Location: Site A, Room 8

H M

JWH01 **SNOW PROCESSES: REPRESENTATION IN
ATMOSPHERIC AND HYDROLOGICAL MODELS
(IAHS/ICSI, IAMAS)**
Location: Site C, Room 30

H M P

JSM03 **LAND-OCEAN-ATMOSPHERE INTERACTIONS
IN THE COASTAL ZONE (IAMAS, IAPSO, IAHS)**
Location of Posters: Site D

A M

JSM04 **TERRESTRIAL ECOSYSTEMS, ATMOSPHERIC
COMPOSITION, CLIMATE (IAMAS, IAGA)**
Location: Site B, Room 23

H M

JSM14 **DYNAMICS AND PREDICTABILITY OF SEVERE
WEATHER EVENTS (IAMAS [ICDM, ICCP],
IAHS)**
Location: Site A, Room 5

H M P

JSP04 **ARCTIC ENVIRONMENT CHANGE (IAPSO,
IAMAS, IAHS)**
Location: Site A, Room 6

M P

JSP08 **COASTAL PROCESSES AND STORM SURGES
(IAPSO, IAMAS, LOICZ[IGBP])**
Location: Site B, Room 19

A M P

JSP10 **ROTATING AND STRATIFIED FLUIDS (IAPSO,
IAGA, IAMAS, SEDI)**
Location: Site B, Room 21

G A S V

JSS06 **EARTH STRUCTURE AND GEODYNAMICS
(IASPEI, IAVCEI, IAG, IAGA)**
Location: Site A, Room 4

P S V

JSS07 **TSUNAMIS: THEIR SCIENCE, ENGINEERING
AND HAZARD MITIGATION (IASPEI, IAVCEI,
IAPSO)**
Location: Site A, Room 2

IAGA

GAI.10 **ELECTROMAGNETIC INVERSION MODELING**
Location: Site A, Room 11

GAII.04 **LIGHTNING-INDUCED TRANSIENT
PROCESSES IN THE MIDDLE AND UPPER
ATMOSPHERE AND THEIR IMPACT ON THE
EARTH SYSTEM**
Location of Posters: Site D

GAII.06 **IONOSPHERIC IRREGULARITIES, FIELDS AND
WAVES**
Location: Site A, Room 10

GAI.07 **WHAT IS THE ROLE OF NON-LINEAR
PROCESSES AND COMPLEX SYSTEM
DYNAMICS IN DETERMINING
MAGNETOSPHERIC BEHAVIOR?**
Location: Site A, Room 14

GAIII.11 HOW DO SPACECRAFT INTERACT WITH THEIR SPACE ENVIRONMENT?

Location: Site A, Room 15

GAIV.03 MARS: MAGNETISM AND INTERACTION WITH THE SOLAR WIND

Location: Site A, Room 16

IAHS

HS01 EROSION PREDICTION OF UNGAUGED BASINS (PUBS): INTEGRATING METHODS AND TECHNIQUES (ICCE, ICRS AND ALL IAHS COMMISSIONS)

Location: Site C, Room 29

HS02 WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)

Location: Site C, Room 24

HW01 EFFECTS OF HUMAN ACTIVITIES ON HYDROLOGICAL AND BIOGEOCHEMICAL CYCLES (ICWQ)

Location: Site C, Room 26

HW04 SYSTEMS MODELING OF GLOBAL WATER DYNAMICS (ICWRS)

Location: Site C, Room 31

HW08 PARAMETER ESTIMATION TECHNIQUES (IAHS/WMO WORKING GROUP ON GEWEX WITH THE SUPPORT OF ICSW AND ICASVR)

Location: Site C, Room 28

IAMAS

MI03 CHEMISTRY-CLIMATE INTERACTIONS (COVERS OZONE INTERACTIONS) (ICACGP, IOC, ICCI)

Location of Posters: Site D

MI05 LARGE SCALE PATTERNS OF ATMOSPHERIC VARIABILITY: DYNAMICS, CLIMATE IMPACTS, AND ROLE IN RECENT CLIMATE CHANGE (ICCI)

Location: Site B, Room 17

MI09 NEW INSTRUMENTS AND TECHNOLOGY, ADVANCES IN REMOTE SENSING

Location: Site B, Room 22

MC03 DYNAMICS AND VARIABILITY OF MONSOON SYSTEMS (ICDM)

Location: Site A, Room 7

MC05 MIDDLE ATMOSPHERE SCIENCE (ICMA)

Location: Site A, Room 9

IASPEI

SS04 STRONG GROUND MOTION, EARTHQUAKE HAZARD AND RISK

Location: Site A, Room 3

Wednesday, July 9 PM

INTER-ASSOCIATION

G H P S

JSG02 INTERDISCIPLINARY EARTH SCIENCE FROM IMPROVED GRAVITY FIELD MODELING (IAG, IAHS, IAPSO, IASPEI)

Location: Site A, Room 5

G H P S

JSG03 INTERDISCIPLINARY SCIENCE FROM REMOTE SENSING - RADAR ALTIMETRY, ATSR, SAR, OCEAN COLOR AND OTHER SENSORS (IAG, IAHS, IAPSO, IASPEI, ISPRS)

Location: Site A, Room 12

Location of Posters: Site D

A M

JSA08 EFFECTS OF SOLAR VARIABILITY ON CLIMATE CHANGE (IAGA, IAMAS)

Location: Site A, Room 8

H M

JWH01 SNOW PROCESSES: REPRESENTATION IN ATMOSPHERIC AND HYDROLOGICAL MODELS (IAHS/ICSI, IAMAS)

Location: Site C, Room 30

A M

JSM04 TERRESTRIAL ECOSYSTEMS, ATMOSPHERIC COMPOSITION, CLIMATE (IAMAS, IAGA)

Location: Site B, Room 23

Location of Posters: Site D

H M P

JSM10 CRYOSPHERE-CLIMATE INTERACTIONS (IAMAS [ICCL, ICPM], IAPSO, IAHS)

Location of Posters: Site D

H M

JSM14 DYNAMICS AND PREDICTABILITY OF SEVERE WEATHER EVENTS (IAMAS [ICDM, ICCP], IAHS)

Location of Posters: Site D

H M P

JSP04 ARCTIC ENVIRONMENT CHANGE (IAPSO, IAMAS, IAHS)

Location: Site A, Room 6

Location of Posters: Site D

M P

JSP08 COASTAL PROCESSES AND STORM SURGES (IAPSO, IAMAS, LOICZ[IGBP])

Location: Site B, Room 19

Location of Posters: Site D

A M P

JSP10 ROTATING AND STRATIFIED FLUIDS (IAPSO, IAGA, IAMAS, SEDI)

Location: Site B, Room 21

G A S V

JSS06 EARTH STRUCTURE AND GEODYNAMICS (IASPEI, IAVCEI, IAG, IAGA)
Location: Site A, Room 4

P S V

JSS07 TSUNAMIS: THEIR SCIENCE, ENGINEERING AND HAZARD MITIGATION (IASPEI, IAVCEI, IAPSO)
Location: Site A, Room 2
Location of Posters: Site D

IAGA

GAI.10 ELECTROMAGNETIC INVERSION MODELING
Location: Site A, Room 11
Location of Posters: Site D

GAII.06 IONOSPHERIC IRREGULARITIES, FIELDS AND WAVES
Location: Site A, Room 10

GAIII.07 WHAT IS THE ROLE OF NON-LINEAR PROCESSES AND COMPLEX SYSTEM DYNAMICS IN DETERMINING MAGNETOSPHERIC BEHAVIOR?
Location: Site A, Room 14

GAIII.11 HOW DO SPACECRAFT INTERACT WITH THEIR SPACE ENVIRONMENT?
Location: Site A, Room 15

GAIV.03 MAGNETISM AND INTERACTION WITH THE SOLAR WIND
Location of Posters: Site D

GAIV.04 REPORTER REVIEWS
Location: Site A, Room 16

GAV.05 MODELING THE EARTH'S MAGNETIC FIELD ON GLOBAL AND REGIONAL SCALES (SEDI)
Location of Posters: Site D

GAV.06 MODERN MAGNETIC SURVEYS FOR REGIONAL TECTONICS, GEOHAZARDS AND ENVIRONMENTAL INVESTIGATIONS
Location of Posters: Site D

IAHS

HS01 EROSION PREDICTION OF UNGAUGED BASINS (PUBS): INTEGRATING METHODS AND TECHNIQUES (ICCE, ICRS AND ALL IAHS COMMISSIONS)
Location: Site C, Room 29
Location of Posters: Site D

HS02 WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)
Location: Site C, Room 24

HW01 EFFECTS OF HUMAN ACTIVITIES ON HYDROLOGICAL AND BIOGEOCHEMICAL CYCLES (ICWQ)
Location: Site C, Room 26
Location of Posters: Site D

HW04 SYSTEMS MODELING OF GLOBAL WATER DYNAMICS (ICWRS)
Location: Site C, Room 31

HW08 PARAMETER ESTIMATION TECHNIQUES (IAHS/WMO WORKING GROUP ON GEWEX WITH THE SUPPORT OF ICSW AND ICASVR)
Location: Site C, Room 28

IAMAS

MI05 LARGE SCALE PATTERNS OF ATMOSPHERIC VARIABILITY: DYNAMICS, CLIMATE IMPACTS, AND ROLE IN RECENT CLIMATE CHANGE (ICCI)
Location: Site B, Room 17

MI06 THE DYNAMICS OF MID-LATITUDE AND POLAR WEATHER SYSTEMS OVER THE OPEN OCEAN (ICPM, ICDM)
Location: Site B, Room 20

MI09 NEW INSTRUMENTS AND TECHNOLOGY, ADVANCES IN REMOTE SENSING
Location: Site B, Room 22

MC03 DYNAMICS AND VARIABILITY OF MONSOON SYSTEMS (ICDM)
Location: Site A, Room 7

MC05 MIDDLE ATMOSPHERE SCIENCE (ICMA)
Location: Site A, Room 9

IASPEI

SS04 STRONG GROUND MOTION, EARTHQUAKE HAZARD AND RISK
Location of Posters: Site D

SW04 EFFECTS OF EARTHQUAKES ON MEGACITIES
Location: Site A, Room 13

Thursday, July 10 AM**INTER-ASSOCIATION****G H P S**

JSG03 INTERDISCIPLINARY SCIENCE FROM REMOTE SENSING - RADAR ALTIMETRY, ATSR, SAR, OCEAN COLOR AND OTHER SENSORS (IAG, IAHS, IAPSO, IASPEI, ISPRS)
Location: Site A, Room 12

A S

JSA07 REGIONAL CRUSTAL MODELS BASED ON SEISMIC, ELECTROMAGNETIC, POTENTIAL FIELD, AND GEOTHERMAL STUDIES (IAGA, IASPEI)
Location: Site A, Room 5

A M

JSA09 CHALLENGES OF GLOBAL CHANGE IN FORCING FROM BELOW AND ABOVE (IAGA, IAMAS)
Location: Site A, Room 8

H M

- JWH01 SNOW PROCESSES: REPRESENTATION IN ATMOSPHERIC AND HYDROLOGICAL MODELS (IAHS/ICSI, IAMAS)**
Location: Site C, Room 30

G H M P

- JSM11 GLOBAL SEA LEVEL RISE, GLOBAL CLIMATE CHANGE AND POLAR ICE SHEET STABILITY (IAMAS [ICDM, ICCL, ICPM], IAPSO, IAG, IAHS)**
Location: Site B, Room 18

H M P

- JSP04 ARCTIC ENVIRONMENT CHANGE (IAPSO, IAMAS, IAHS)**
Location: Site A, Room 6

M P

- JSP09 PHYSICAL ASPECTS OF AIR-SEA INTERACTION (IAPSO, IAMAS)**
Location: Site B, Room 20

A M P

- JSP10 ROTATING AND STRATIFIED FLUIDS (IAPSO, IAGA, IAMAS, SEDI)**
Location: Site B, Room 21

G A S V

- JSS06 EARTH STRUCTURE AND GEODYNAMICS (IASPEI, IAVCEI, IAG, IAGA)**
Location: Site A, Room 4

P S V

- JSS07 TSUNAMIS: THEIR SCIENCE, ENGINEERING AND HAZARD MITIGATION (IASPEI, IAVCEI, IAPSO)**
Location: Site A, Room 2

IAG

- G07 GLOBAL GEODETIC OBSERVING SYSTEM. IAG SYMPOSIUM**
Location: Site A, Room 3

IAGA

- GAI06 IONOSPHERIC IRREGULARITIES, FIELDS AND WAVES**
Location: Site A, Room 1
- GAI08 WHAT IS THE LIFE-HISTORY OF PARTICLES IN THE MAGNETOSPHERIC REGIONS?**
Location: Site A, Room 16
- GAV.06 MODERN MAGNETIC SURVEYS FOR REGIONAL TECTONICS, GEOHAZARDS AND ENVIRONMENTAL INVESTIGATIONS**
Location: Site A, Room 11

IAHS

- HS02 WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)**
Location: Site C, Room 24

- HW01 EFFECTS OF HUMAN ACTIVITIES ON HYDROLOGICAL AND BIOGEOCHEMICAL CYCLES (ICWQ)**
Location: Site C, Room 26

- HW05 GROUNDWATER RESOURCES FOR EMERGENCY SITUATIONS (ICGW)**
Location: Site C, Room 31

- HW07 TOWARDS A SCIENCE PROGRAM FOR PREDICTION IN UNGAUGED BASINS (ALL IAHS COMMISSIONS)**
Location: Site C, Room 25

IAMAS

- MI05 LARGE SCALE PATTERNS OF ATMOSPHERIC VARIABILITY: DYNAMICS, CLIMATE IMPACTS, AND ROLE IN RECENT CLIMATE CHANGE (ICCI)**
Location: Site B, Room 17
- MC03 DYNAMICS AND VARIABILITY OF MONSOON SYSTEMS (ICDM)**
Location: Site A, Room 7
- MC05 MIDDLE ATMOSPHERE SCIENCE (ICMA)**
Location: Site A, Room 9
- MC11 CLIMATE MODEL EVALUATION: HOW WELL DO MODELS REPRESENT OBSERVATIONS (ICCI)**
Location: Site B, Room 19
- MC17 PROPAGATION MECHANISMS FOR THE MADDEN-JULIAN OSCILLATION (MJO) (ICDM)**
Location of Posters: Site D

IASPEI

- SS05 EDUCATION AND OUTREACH**
Location: Site A, Room 13
- SW03 LITHOSPHERIC STRUCTURE OF A SUPERCONTINENT: GONDWANA**
Location of Posters: Site D
- SW05 NEW TECHNOLOGIES AND GEOPHYSICAL DATA CHALLENGES**
Location of Posters: Site D

Thursday, July 10 PM

INTER-ASSOCIATION

A S

- JSA07 REGIONAL CRUSTAL MODELS BASED ON SEISMIC, ELECTROMAGNETIC, POTENTIAL FIELD, AND GEOTHERMAL STUDIES (IAGA, IASPEI)**
Location: Site A, Room 5

A M

- JSA08 EFFECTS OF SOLAR VARIABILITY ON CLIMATE CHANGE (IAGA, IAMAS)**
Location of Posters: Site D

H M

JWH01 SNOW PROCESSES: REPRESENTATION IN ATMOSPHERIC AND HYDROLOGICAL MODELS (IAHS/ICSI, IAMAS)
Location: Site C, Room 30
Location of Posters: Site D

G H M P

JSM11 GLOBAL SEA LEVEL RISE, GLOBAL CLIMATE CHANGE AND POLAR ICE SHEET STABILITY (IAMAS [ICDM, ICCL, ICPM], IAPSO, IAG, IAHS)
Location: Site B, Room 18
Location of Posters: Site D

H M P

JSP04 ARCTIC ENVIRONMENT CHANGE (IAPSO, IAMAS, IAHS)
Location: Site A, Room 6
Location of Posters: Site D

M P

JSP09 PHYSICAL ASPECTS OF AIR-SEA INTERACTION (IAPSO, IAMAS)
Location: Site B, Room 20

A M P

JSP10 ROTATING AND STRATIFIED FLUIDS (IAPSO, IAGA, IAMAS, SEDI)
Location: Site B, Room 21

G A S V

JSS06 EARTH STRUCTURE AND GEODYNAMICS (IASPEI, IAVCEI, IAG, IAGA)
Location of Posters: Site D

P S V

JSS07 TSUNAMIS: THEIR SCIENCE, ENGINEERING AND HAZARD MITIGATION (IASPEI, IAVCEI, IAPSO)
Location: Site A, Room 2
Location of Posters: Site D

IAG

G02 ADVANCED SPACE TECHNOLOGY. MEETING OF IAG SECTION II
Location of Posters: Site D

G07 GLOBAL GEODETIC OBSERVING SYSTEM. IAG SYMPOSIUM
Location: Site A, Room 3
Location of Posters: Site D

IAGA

GAIH.07 WHAT IS THE ROLE OF NON-LINEAR PROCESSES AND COMPLEX SYSTEM DYNAMICS IN DETERMINING MAGNETOSPHERIC BEHAVIOR?
Location of Posters: Site D

GAIH.09 HOW DOES ENERGY FLOW FROM THE SOLAR CORONA THROUGH THE MAGNETOSPHERIC REGIONS?
Location of Posters: Site D

GAIH.10 HOW CAN WE USE WAVES AS DIAGNOSTIC PROBES FOR SPACE WEATHER STUDIES?
Location: Site A, Room 1

GAIH.11 HOW DO SPACECRAFT INTERACT WITH THEIR SPACE ENVIRONMENT?
Location of Posters: Site D

GAV.06 MODERN MAGNETIC SURVEYS FOR REGIONAL TECTONICS, GEOHAZARDS AND ENVIRONMENTAL INVESTIGATIONS
Location: Site A, Room 11

IAHS

HS02 WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)
Location: Site C, Room 24
Location of Posters: Site D

HW01 EFFECTS OF HUMAN ACTIVITIES ON HYDROLOGICAL AND BIOGEOCHEMICAL CYCLES (ICWQ)
Location: Site C, Room 26

HW05 GROUNDWATER RESOURCES FOR EMERGENCY SITUATIONS (ICGW)
Location of Posters: Site D

HW07 TOWARDS A SCIENCE PROGRAM FOR PREDICTION IN UNGAUGED BASINS (ALL IAHS COMMISSIONS)
Location: Site C, Room 25

IAMAS

MI05 LARGE SCALE PATTERNS OF ATMOSPHERIC VARIABILITY: DYNAMICS, CLIMATE IMPACTS, AND ROLE IN RECENT CLIMATE CHANGE (ICCI)
Location: Site B, Room 17
Location of Posters: Site D

MI07 CLIMATE INTERACTION AT THE LAND-ATMOSPHERE INTERFACE
Location of Posters: Site D

MC03 DYNAMICS AND VARIABILITY OF MONSOON SYSTEMS (ICDM)
Location: Site A, Room 7

MC04 PLANETARY ATMOSPHERES AND THEIR EVOLUTION (ICPAE)
Location: Site B, Room 22

MC05 MIDDLE ATMOSPHERE SCIENCE (ICMA)
Location: Site A, Room 9

MC11 CLIMATE MODEL EVALUATION: HOW WELL DO MODELS REPRESENT OBSERVATIONS (ICCI)
Location: Site B, Room 19

MC17 PROPAGATION MECHANISMS FOR THE MADDEN-JULIAN OSCILLATION (MJO) (ICDM)
Location: Site B, Room 23

IASPEI

- SS04 STRONG GROUND MOTION, EARTHQUAKE HAZARD AND RISK**
Location of Posters: Site D
- SS05 EDUCATION AND OUTREACH**
Location of Posters: Site D
- SW03 LITHOSPHERIC STRUCTURE OF A SUPERCONTINENT: GONDWANA**
Location: Site A, Room 4
- SW05 NEW TECHNOLOGIES AND GEOPHYSICAL DATA CHALLENGES**
Location: Site A, Room 13

Friday, July 11 AM

UNION

- U7 HISTORY OF IUGG**
Location: Site D, Room 32
- U8 GEOSCIENCES: THE FUTURE (GTF)**
Location: Site A, Room 2

INTER-ASSOCIATION

A S

- JSA07 REGIONAL CRUSTAL MODELS BASED ON SEISMIC, ELECTROMAGNETIC, POTENTIAL FIELD, AND GEOTHERMAL STUDIES (IAGA, IASPEI)**
Location of Posters: Site D

M P

- JSP09 PHYSICAL ASPECTS OF AIR-SEA INTERACTION (IAPSO, IAMAS)**
Location: Site B, Room 20

A M P

- JSP10 ROTATING AND STRATIFIED FLUIDS (IAPSO, IAGA, IAMAS, SEDI)**
Location: Site B, Room 21

IAGA

- GAI1.07 AERONOMY OF PLANETARY ATMOSPHERES INCLUDING COMPARATIVE ATMOSPHERES**
Location: Site A, Room 12
- GAI1.09 HOW DOES ENERGY FLOW FROM THE SOLAR CORONA THROUGH THE MAGNETOSPHERIC REGIONS?**
Location: Site A, Room 11
- GAI1.10 HOW CAN WE USE WAVES AS DIAGNOSTIC PROBES FOR SPACE WEATHER STUDIES?**
Location: Site A, Room 1
Location of Posters: Site D

IAHS

- HS02 WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)**
Location: Site C, Room 24

HW02 STREAM TEMPERATURE CHANGES AND EFFECTS (ICWQ)

Location: Site C, Room 31
Location of Posters: Site D

HW03 QUALITY ASSURANCE IN HYDROLOGICAL RESEARCH (ICWQ, ICSW, ICGW, ICWR, ICASVR, ICCE)

Location: Site C, Room 30
Location of Posters: Site D

HW07 TOWARDS A SCIENCE PROGRAM FOR PREDICTION IN UNGAUGED BASINS (ALL IAHS COMMISSIONS)

Location: Site C, Room 25

IAMAS

MI05 LARGE SCALE PATTERNS OF ATMOSPHERIC VARIABILITY: DYNAMICS, CLIMATE IMPACTS, AND ROLE IN RECENT CLIMATE CHANGE (ICCI)

Location: Site B, Room 17

MI07 CLIMATE INTERACTION AT THE LAND-ATMOSPHERE INTERFACE

Location: Site B, Room 18

MC03 DYNAMICS AND VARIABILITY OF MONSOON SYSTEMS (ICDM)

Location: Site A, Room 7

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Location: Site B, Room 22

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Location: Site B, Room 19

MC17 PROPAGATION MECHANISMS FOR THE MADDEN-JULIAN OSCILLATION (MJO) (ICDM)

Location: Site B, Room 23

Friday, July 11 PM

UNION

- U7 HISTORY OF IUGG**
Location: Site D, Room 32

INTER-ASSOCIATION

A M

- JSA09 CHALLENGES OF GLOBAL CHANGE IN FORCING FROM BELOW AND ABOVE (IAGA, IAMAS)**
Location of Posters: Site D

M P

- JSP09 PHYSICAL ASPECTS OF AIR-SEA INTERACTION (IAPSO, IAMAS)**
Location: Site B, Room 20

JSP10 ROTATING AND STRATIFIED FLUIDS (IAPSO, IAGA, IAMAS, SEDI)
Location: Site B, Room 21

IAGA

GAI.06 IONOSPHERIC IRREGULARITIES, FIELDS AND WAVES
Location of Posters: Site D

GAI.07 AERONOMY OF PLANETARY ATMOSPHERES INCLUDING COMPARATIVE ATMOSPHERES
Location: Site A, Room 12

GAI.08 WHAT IS THE LIFE-HISTORY OF PARTICLES IN THE MAGNETOSPHERIC REGIONS?
Location of Posters: Site D

GAI.09 HOW DOES ENERGY FLOW FROM THE SOLAR CORONA THROUGH THE MAGNETOSPHERIC REGIONS?
Location: Site A, Room 11

IAHS

HS02 WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)
Location: Site C, Room 24
Location of Posters: Site D

HW03 QUALITY ASSURANCE IN HYDROLOGICAL RESEARCH (ICWQ, ICSW, ICGW, ICWR, ICASVR, ICCE)
Location: Site C, Room 30

HW07 TOWARDS A SCIENCE PROGRAM FOR PREDICTION IN UNGAUGED BASINS (ALL IAHS COMMISSIONS)
Location: Site C, Room 25
Location of Posters: Site D

IAMAS

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Location of Posters: Site D

MC17 PROPAGATION MECHANISMS FOR THE MADDEN-JULIAN OSCILLATION (MJO) (ICDM)
Location: Site B, Room 23

Summary Listing

The Summary Listing gives an overview of all Symposia and Workshops the Associations are organising and/or are involved in. It also indicates the duration of each Symposia and Workshop. There is no indication of morning (AM) or afternoon (PM) when the Symposium lasts a full day.

UNION LECTURES

- UL1 FROM WEATHER PREDICTION TO GLOBAL CHANGE PROJECTION**
Tuesday, July 1 AM
- UL3 THE IMPACT OF HUMAN ACTIVITIES ON THE ATMOSPHERE**
Thursday, July 3 AM
- UL5 MODELING OF THE EARTH'S DYNAMO**
Monday, July 7 AM
- UL6 THE GRAVITY FIELD OF THE EARTH DETERMINED BY NEW SATELLITE MISSIONS**
Wednesday, July 9 AM

UNION SYMPOSIA

- U1 FORECASTING, PREDICTION AND PREDICTABILITY**
Tuesday, July 1 AM
- U2 VOLATILES IN VOLCANIC ARCS: FROM SLAB TO STRATOSPHERE**
Wednesday, July 2 AM
- U3 EARTH SYSTEMS AND GLOBAL CHANGE**
Thursday, July 3 AM
- U4 GEOPHYSICAL RISK AND SUSTAINABILITY ON A CROWDED PLANET**
Friday, July 4 AM
- U5 STRUCTURE AND DYNAMICS OF THE EARTH'S INTERIOR**
Monday, July 7 AM
- U6 NEW SENSORS OF OUR PLANET. WHAT IS POSSIBLE**
Wednesday, July 9 AM
- U7 HISTORY OF IUGG**
Friday, July 11
- U8 GEOSCIENCES: THE FUTURE (GTF)**
Friday, July 11 AM

INTER-ASSOCIATION SYMPOSIA AND WORKSHOPS

- JSG01 SECULAR, TRANSIENT AND PERIODIC CRUSTAL MOVEMENTS AND THEIR GEOPHYSICAL IMPLICATIONS (IAG, IASPEI)**
Monday, July 7 AM - Tuesday, July 8 PM
- JSG02 INTERDISCIPLINARY EARTH SCIENCE FROM IMPROVED GRAVITY FIELD MODELING (IAG, IAHS, IAPSO, IASPEI)**
Wednesday, July 9
- JSG03 INTERDISCIPLINARY SCIENCE FROM REMOTE SENSING - RADAR ALTIMETRY, ATSR, SAR, OCEAN COLOR AND OTHER SENSORS (IAG, IAHS, IAPSO, IASPEI, ISPRS)**
Wednesday, July 9 PM - Thursday, July 10 AM
- JSA01 LONG-TERM TRENDS IN THE MESOSPHERE, THERMOSPHERE AND IONOSPHERE (IAGA, IAMAS)**
Tuesday, July 8
- JSA02 EXTERNAL FORCING ON THE MIDDLE ATMOSPHERE AND IONOSPHERE (IAGA, IAMAS)**
Tuesday, July 1 PM - Wednesday, July 2 PM
- JSA03 EQUATORIAL MIDDLE ATMOSPHERE-THERMOSPHERE-IONOSPHERE DYNAMICS AND ENERGETICS (IAGA, IAMAS, SCOSTEP)**
Monday, June 30 AM - Tuesday, July 1 PM
- JSA06 SEISMO-, VOLCANO- AND TECTONO-ELECTROMAGNETIC EFFECTS (IAGA, IASPEI, IAVCEI)**
Wednesday, July 2 PM - Friday, July 4 PM
- JSA07 REGIONAL CRUSTAL MODELS BASED ON SEISMIC, ELECTROMAGNETIC, POTENTIAL FIELD, AND GEOTHERMAL STUDIES (IAGA, IASPEI)**
Thursday, July 10 AM - Friday, July 11 AM
- JSA08 EFFECTS OF SOLAR VARIABILITY ON CLIMATE CHANGE (IAGA, IAMAS)**
Wednesday, July 9 AM - Thursday, July 10 PM
- JSA09 CHALLENGES OF GLOBAL CHANGE IN FORCING FROM BELOW AND ABOVE (IAGA, IAMAS)**
Thursday, July 10 AM, Friday, July 11 PM
- JSA10 ELECTROMAGNETIC IMAGING AND MONITORING OF VOLCANOES AND ACTIVE FAULTS (IAGA, IASPEI, IAVCEI)**
Monday, June 30
- JSA11 TWENTY YEARS OF THE OCEAN DRILLING PROGRAM (IAGA, IAMAS, IAPSO, IASPEI, IAVCEI)**
Wednesday, July 2

JSH01	THE REMOTE SENSING OF THE CRYOSPHERE (IAHS [ICSI, ICRS], IAMAS, IAPSO) Monday, July 7 AM - Tuesday, July 8 PM	JSM10	CRYOSPHERE-CLIMATE INTERACTIONS (IAMAS [ICCL, ICPM], IAPSO, IAHS) Monday, July 7 AM - Tuesday, July 8 PM, Wednesday, July 9 PM
JSH02	GROUNDWATER AND VOLCANOES (IAHS/ICGW, IAVCEI) Thursday, July 3 PM - Friday, July 4 PM	JSM11	GLOBAL SEA LEVEL RISE, GLOBAL CLIMATE CHANGE AND POLAR ICE SHEET STABILITY (IAMAS [ICDM, ICCL, ICPM], IAPSO, IAG, IAHS) Thursday, July 10
JSH03	QUANTITATIVE APPROACHES TO HYPORHEIC FLOWS AND THEIR BIOGEOCHEMICAL CONSEQUENCES IN MARINE, ESTUARINE AND FRESHWATER SYSTEMS (IAHS, ICWQ) Thursday, July 3, Friday, July 4 PM	JSM12	THE TREATMENT OF PRECIPITATION IN CLOUD AND CLIMATE MODELS (IAMAS [ICCP, ICCL], IAHS) Friday, July 4
JWH01	SNOW PROCESSES: REPRESENTATION IN ATMOSPHERIC AND HYDROLOGICAL MODELS (IAHS/ICSI, IAMAS) Wednesday, July 9 AM - Thursday, July 10 PM	JSM13	DATA ASSIMILATION FOR ATMOSPHERIC AND OCEANIC PROCESSES (IAMAS [ICDM, ICCP], IAHS, IAPSO, IAGA, IAG, SPARC) Monday, June 30 PM - Thursday, July 3 PM
JWH02	THE ROLE OF GEWEX HYDROMETEOROLOGICAL SCIENCE IN IMPROVED WATER RESOURCES MANAGEMENT (IAHS, IAMAS) Thursday, July 3 PM - Friday, July 4 PM	JSM14	DYNAMICS AND PREDICTABILITY OF SEVERE WEATHER EVENTS (IAMAS [ICDM, ICCP], IAHS) Monday, July 7 AM - Wednesday, July 9 PM
JSM01	TOWARD HIGH RESOLUTION CLIMATE MODELS AND EARTH SYSTEM MODELS (IAMAS, IAPSO) Monday, June 30 AM - Tuesday, July 1 PM	JSM15	SPECIAL NAKAYA-MAGONO CELEBRATION: THE GROWTH OF ICE CRYSTALS AND SNOW (IAMAS [ICCP, ICPM], IAHS) Saturday, July 5 AM - Monday, July 7 PM
JSM02	THE SURFACE OCEAN-LOWER ATMOSPHERE STUDY (IAMAS [ICACGP, ICPM], IAPSO) Thursday, July 3 AM - Friday, July 4 PM	JSM16	THE ROLE OF ATMOSPHERIC PROCESSES IN MASS BALANCE EXCHANGE IN THE POLAR REGIONS (IAMAS [ICPM, ICDM], IAHS) Friday, July 4
JSM03	LAND-OCEAN-ATMOSPHERE INTERACTIONS IN THE COASTAL ZONE (IAMAS, IAPSO, IAHS) Tuesday, July 8 AM - Wednesday, July 9 AM	JSM17	MIXING AND ITS PARAMETERIZATION IN GEOPHYSICAL FLUIDS (IAMAS, IAPSO, IAHS) Wednesday, July 2 AM - Thursday, July 3 PM
JSM04	TERRESTRIAL ECOSYSTEMS, ATMOSPHERIC COMPOSITION, CLIMATE (IAMAS, IAGA) Wednesday, July 9	JSM18	MEASUREMENT AND DISTRIBUTION OF PRECIPITATION (IAMAS [ICCP, ICPM], IAHS) Monday, June 30 AM - Tuesday, July 1 PM
JSM05	SOLAR EFFECTS IN THE MIDDLE ATMOSPHERE AND IONOSPHERE (IAMAS [ICMA/IRC], IAGA, SCOSTEP) Friday, July 4	JWM01	WATER AND ENERGY BUDGET WORKSHOP (IAMAS, IAHS) Monday, June 30 AM - Tuesday, July 1 AM
JSM06	LAYERED PHENOMENA NEAR THE MESOPAUSE (IAMAS [ICMA], IAGA) Wednesday, July 2	JSP01	THE DECADAL TO CENTENNIAL VARIABILITY OF THE OCEAN AND ATMOSPHERE (IAPSO, IAMAS, CLIVAR) Monday, June 30 AM - Wednesday, July 2 PM
JSM07	APPLICATION OF GPS TECHNIQUES IN THE ATMOSPHERE (IAMAS [ICMA], IAGA, IAG) Wednesday, July 2 PM - Thursday, July 3 PM	JSP02	NEW PERSPECTIVES OF COUPLED TROPICAL OCEAN-ATMOSPHERE DYNAMICS AND PREDICTABILITY (IAPSO, IAMAS, CLIVAR) Wednesday, July 2 PM - Friday, July 4 PM
JSM08	ENERGETICS AND CIRCULATION OF THE MLT REGION AND ITS COUPLING WITH CIRCULATION AND CHEMISTRY OF THE THERMOSPHERE AND STRATOSPHERE (IAMAS [ICMA, ICACGP], IAGA) Monday, June 30 PM - Wednesday, July 2 AM	JSP03	GROUNDWATER INPUTS TO THE OCEAN (IAPSO, IAHS) Friday, July 4
JSM09	INTENSE VORTICES FROM THE SMALL SCALE TO THE PLANETARY SCALE (IAMAS [ICDM], IAPSO) Monday, June 30 AM - Tuesday, July 1 PM, Wednesday, July 2 PM	JSP04	ARCTIC ENVIRONMENT CHANGE (IAPSO, IAMAS, IAHS) Wednesday, July 9 AM - Thursday, July 10 PM
		JSP05	WORLDWIDE SEA LEVEL CHANGE (IAPSO, IAG) Thursday, July 3 AM - Friday, July 4 AM

JSP06	THE GLOBAL OCEAN OBSERVING SYSTEM (IAPSO, IAG, IOC) Monday, July 7 AM - Tuesday, July 8 AM
JSP07	THE COASTAL OCEAN OBSERVING SYSTEM (IAPSO, IAG, IOC) Tuesday, July 8
JSP08	COASTAL PROCESSES AND STORM SURGES (IAPSO, IAMAS, LOICZ[IGBP]) Wednesday, July 9
JSP09	PHYSICAL ASPECTS OF AIR-SEA INTERACTION (IAPSO, IAMAS) Thursday, July 10 AM - Friday, July 11 PM
JSP10	ROTATING AND STRATIFIED FLUIDS (IAPSO, IAGA, IAMAS, SEDI) Tuesday, July 8 PM - Friday, July 11 PM
JSP11	GEOPHYSICAL RISK AND VULNERABILITY: THE POPULATION-HAZARD INTERACTION (IAPSO, IAGA, IAHS, IAMAS, IASPEI, IAVCEI) Monday, July 7 AM - Tuesday, July 8 PM
JSS01	HAGIWARA SYMPOSIUM ON MONITORING AND MODELING OF EARTHQUAKE AND VOLCANIC PROCESSES FOR PREDICTION (IASPEI, IAVCEI, IAG, IAGA) Monday, June 30 AM - Tuesday, July 1 PM
JSS02	RECENT DESTRUCTIVE EARTHQUAKES (IASPEI, IAG) Tuesday, July 1 AM - Wednesday, July 2 AM
JSS03	LONG-TERM IN-SITU OCEAN OBSERVATORIES AND OBSERVATIONS (IASPEI, IAG, IAGA, IAPSO, ION) Thursday, July 3 AM - Friday, July 4 AM
JSS04	THERMALLY CONTROLLED PROCESSES WITHIN THE EARTH (IASPEI, IAVCEI, IAGA, IAPSO, IAMAS, IAHS) Thursday, July 3, Friday, July 4 PM
JSS05	PHYSICS AND CHEMISTRY OF EARTH MATERIALS (IASPEI, IAVCEI, IAGA) Thursday, July 3 PM - Friday, July 4 PM
JSS06	EARTH STRUCTURE AND GEODYNAMICS (IASPEI, IAVCEI, IAG, IAGA) Monday, July 7 PM - Thursday, July 10 PM
JSS07	TSUNAMIS: THEIR SCIENCE, ENGINEERING AND HAZARD MITIGATION (IASPEI, IAVCEI, IAPSO) Wednesday, July 9 AM - Thursday, July 10 PM
JWS01	IS SHORT-TERM EARTHQUAKE PREDICTION POSSIBLE? (IASPEI, IAVCEI, IAG, IAGA) Wednesday, July 2 PM
JWS04	SUBSURFACE THERMAL SIGNATURES OF TECTONICS, HYDROGEOLOGY AND PALEOCLIMATE (IASPEI, IAVCEI, IAGA, IAPSO, IAMAS, IAHS) Friday, July 4

JSV02	VOLCANISM AND THE EARTH'S ATMOSPHERE (IAVCEI, IAMAS) Monday, June 30 AM - Tuesday, July 1 PM
JSV03	FLOOD BASALT VOLCANISM (IAVCEI, IASPEI) Monday, June 30 AM, Wednesday, July 2 PM
JSV04	RECENT ADVANCES IN QUANTITATIVE VOLCANO SEISMOLOGY (IAVCEI, IASPEI) Tuesday, July 1 PM - Wednesday, July 2 PM

IAG (International Association of Geodesy)

G01	POSITIONING. MEETING OF IAG SECTION I Wednesday, July 2 AM - Thursday, July 3 PM
G02	ADVANCED SPACE TECHNOLOGY. MEETING OF IAG SECTION II Friday, July 4 PM - Monday, July 7 AM, Thursday, July 10 PM
G03	DETERMINATION OF THE GRAVITY FIELD. MEETING OF IAG SECTION III Friday, July 4 AM - Saturday, July 5 AM, Monday, July 7 PM
G04	GENERAL THEORY AND METHODOLOGY. MEETING OF IAG SECTION IV Monday, July 7 PM - Tuesday, July 8 PM
G05	GEODYNAMICS. MEETING OF IAG SECTION V Thursday, July 3 AM, Friday, July 4
G06	INSIGHT INTO EARTH SYSTEM SCIENCE: VARIATIONS IN THE EARTH'S ROTATION AND ITS GRAVITY FIELD. MEETING OF SECTION III + V Thursday, July 3 PM, Friday, July 4 PM
G07	GLOBAL GEODETIC OBSERVING SYSTEM. IAG SYMPOSIUM Thursday, July 10

IAGA (International Association of Geomagnetism and Aeronomy)

GAI.01	EXTRATERRESTRIAL ROCK MAGNETISM AND THE ORIGIN OF REMANENCE IN THE SOLAR SYSTEM Monday, June 30 PM
GAI.02	NATURAL MAGNETIC MINERALS: MAGNETIC PROPERTIES, CHEMISTRY AND EVOLUTION Tuesday, July 1
GAI.03	ROCK MAGNETISM: THEORY, EXPERIMENTS AND MODELS (IAGA, ICMA) Thursday, July 3
GAI.04	METHODS AND APPROACHES IN PALEOMAGNETISM (POSTER SESSION) Tuesday, July 1 AM

- GAI.05 OBSERVATIONAL CONSTRAINTS ON FIELD BEHAVIOR: (PALEO) SECULAR VARIATION, PALEOINTENSITY, REVERSAL FREQUENCY AND AGE DATING (SEDI)**
Monday, June 30 PM - Wednesday, July 2 AM
- GAI.06 PALEOMAGNETISM AND FABRICS: REGIONAL AND GLOBAL GEODYNAMICAL CHALLENGES**
Friday, July 4
- GAI.08 CONDUCTIVITY OF CRUST AND MANTLE: RELATION TO GEODYNAMICS (SEDI)**
Tuesday, July 8
- GAI.09 ELECTRICAL AND ELECTROMAGNETIC STUDIES IN GEOTHERMALLY ACTIVE REGIONS**
Monday, June 30 PM - Tuesday, July 1 PM
- GAI.10 ELECTROMAGNETIC INVERSION MODELING**
Wednesday, July 9
- GAI.11 GEODYNAMO, THEORIES AND EXPERIMENTS (SEDI)**
Monday, June 30
- GAI.01 IONOSPHERE-THERMOSPHERE-MAGNETOSPHERE COUPLING**
Monday, June 30
- GAI.02 DYNAMICS, ENERGETICS AND STRUCTURE OF THE MESOSPHERE-THERMOSPHERE-IONOSPHERE REGION**
Tuesday, July 1 PM, Thursday, July 3
- GAI.03 MEASUREMENT TECHNIQUES IN THE MIDDLE/UPPER ATMOSPHERE AND IONOSPHERE (IAGA, ICMA)**
Tuesday, July 1 AM - Wednesday, July 2 PM, Friday, July 4
- GAI.04 LIGHTNING-INDUCED TRANSIENT PROCESSES IN THE MIDDLE AND UPPER ATMOSPHERE AND THEIR IMPACT ON THE EARTH SYSTEM**
Monday, July 7, Wednesday, July 9 AM
- GAI.05 DATA ASSIMILATION TECHNIQUES FOR THE IONOSPHERE-THERMOSPHERE-MAGNETOSPHERE SYSTEM**
Monday, July 7 AM, Tuesday, July 8
- GAI.06 IONOSPHERIC IRREGULARITIES, FIELDS AND WAVES**
Wednesday, July 9 AM - Thursday, July 10 AM, Friday, July 11 PM
- GAI.07 AERONOMY OF PLANETARY ATMOSPHERES INCLUDING COMPARATIVE ATMOSPHERES**
Friday, July 11
- GAI.01 WHAT ARE THE CAUSES AND MECHANISMS FOR PARTICLE ACCELERATION ASSOCIATED WITH AURORA?**
Monday, June 30 AM - Tuesday, July 1 AM
- GAI.02 WHAT ROLE DO WAVES PLAY IN TRANSPORT AND ACCELERATION OF RING CURRENT AND RADIATION BELT PARTICLES?**
Monday, June 30 PM - Tuesday, July 1 PM
- GAI.03 HOW, WHEN, WHERE, AND WHY DO MAGNETIC RECONNECTION OCCUR?**
Wednesday, July 2 AM - Thursday, July 3 PM
- GAI.04 WHAT ARE THE STRUCTURES AND DYNAMICS OF THE MAGNETOPAUSE AND ITS BOUNDARY LAYERS?**
Tuesday, July 1 PM, Thursday, July 3
- GAI.05 WHAT ARE THE STRUCTURES IN THE MAGNETOTAIL, WHY ARE THEY THERE, AND HOW DO THEY INFLUENCE ITS DYNAMICS**
Monday, July 7 AM - Tuesday, July 8 AM
- GAI.06 HOW IS THE INNER MAGNETOSPHERE DYNAMICALLY COUPLED TO OTHER REGIONS OF GEOSPACE?**
Monday, July 7 PM - Tuesday, July 8 PM
- GAI.07 WHAT IS THE ROLE OF NON-LINEAR PROCESSES AND COMPLEX SYSTEM DYNAMICS IN DETERMINING MAGNETOSPHERIC BEHAVIOR?**
Wednesday, July 9, Thursday, July 10 PM
- GAI.08 WHAT IS THE LIFE-HISTORY OF PARTICLES IN THE MAGNETOSPHERIC REGIONS?**
Thursday, July 10 AM, Friday, July 11 PM
- GAI.09 HOW DOES ENERGY FLOW FROM THE SOLAR CORONA THROUGH THE MAGNETOSPHERIC REGIONS?**
Thursday, July 10 PM - Friday, July 11 PM
- GAI.10 HOW CAN WE USE WAVES AS DIAGNOSTIC PROBES FOR SPACE WEATHER STUDIES?**
Thursday, July 10 PM - Friday, July 11 AM
- GAI.11 HOW DO SPACECRAFT INTERACT WITH THEIR SPACE ENVIRONMENT?**
Wednesday, July 9, Thursday, July 10 PM
- GAI.12 HOW DOES MULTI-POINT MONITORING PROBE MULTIPLE SPATIAL AND TEMPORAL SCALES IN THE MAGNETOSPHERE?**
Monday, June 30 PM - Tuesday, July 1 PM
- GAI.13 REPORTER REVIEWS**
Friday, July 4
- GAI.14 HOW DO THE MAGNETOSPHERES OF OTHER PLANETS AND THEIR SATELLITES COMPARE WITH THE EARTH'S MAGNETOSPHERE?**
Monday, July 7 AM - Tuesday, July 8 AM
- GAIV.01 THE DYNAMIC SUN, ITS ATMOSPHERE AND WIND**
Monday, June 30 PM - Thursday, July 3 AM
- GAIV.02 COUPLING COMPLEXITY IN THE HELIOSPHERE**
Thursday, July 3 PM - Friday, July 4 PM, Monday, July 7

- GAIV.03 MARS: MAGNETISM AND INTERACTION WITH THE SOLAR WIND**
Tuesday, July 8 AM - Wednesday, July 9 PM
- GAIV.04 REPORTER REVIEWS**
Wednesday, July 9 PM
- GAV.01 GLOBAL GEOMAGNETIC OBSERVATORY: TOWARDS A BETTER NETWORK OF GEOMAGNETIC OBSERVATIONS**
Monday, June 30 PM - Tuesday, July 1 PM
- GAV.02 GEOMAGNETIC INDICES: REAL-TIME PRODUCTION AND FORECASTING**
Tuesday, July 1 PM, Wednesday, July 2 PM
- GAV.03 THE GEOSPACE ENVIRONMENT IN NEAR-REAL TIME: SCIENCE AND TECHNOLOGY (DIVISION V LEAD, JOINT WITH DIVISION III, INTERDIVISIONAL WG ON POLAR RESEARCH, AND CEOS)**
Tuesday, July 1 PM, Thursday, July 3 AM - Friday, July 4 PM
- GAV.04 INTERNATIONAL DECADE OF GEOPOTENTIAL FIELD RESEARCH: FIRST FIVE YEARS - ADVANCES IN THE UNDERSTANDING THE GEOMAGNETIC FIELD (SEDI)**
Monday, July 7
- GAV.05 MODELING THE EARTH'S MAGNETIC FIELD ON GLOBAL AND REGIONAL SCALES (SEDI)**
Tuesday, July 8, Wednesday, July 9 PM
- GAV.06 MODERN MAGNETIC SURVEYS FOR REGIONAL TECTONICS, GEOHAZARDS AND ENVIRONMENTAL INVESTIGATIONS**
Wednesday, July 9 PM - Thursday, July 10 PM
- GAV.07 MAGNETIC ANOMALIES AND ROCK PROPERTIES**
Monday, July 7 PM
- GADC.01 LOW LATITUDE AND EQUATORIAL ELECTROJET STUDIES FROM GROUND AND SATELLITE MAGNETIC DATA**
Wednesday, July 2 PM - Thursday, July 3 AM
- GADC.02 SPACE WEATHER EFFECTS AT EQUATORIAL AND LOW LATITUDE**
Friday, July 4

IAHS (International Association of Hydrological Sciences)

- HS01 EROSION PREDICTION OF UNGAUGED BASINS (PUBS): INTEGRATING METHODS AND TECHNIQUES (ICCE, ICRS AND ALL IAHS COMMISSIONS)**
Tuesday, July 8 AM - Wednesday, July 9 PM
- HS02 WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)**
Monday, July 7 AM - Friday, July 11 PM

- HS03 WEATHER RADAR INFORMATION AND DISTRIBUTED HYDROLOGICAL MODELING (ICSW)**
Monday, July 7 AM - Tuesday, July 8 PM
- HS04 METHODOLOGIES FOR RISK ASSESSMENT OF WASTE WATER RE-USE ON GROUNDWATER QUALITY (ICWQ)**
Monday, July 7 AM - Tuesday, July 8 AM
- HW01 EFFECTS OF HUMAN ACTIVITIES ON HYDROLOGICAL AND BIOGEOCHEMICAL CYCLES (ICWQ)**
Wednesday, July 9 AM - Thursday, July 10 PM
- HW02 STREAM TEMPERATURE CHANGES AND EFFECTS (ICWQ)**
Friday, July 11
- HW03 QUALITY ASSURANCE IN HYDROLOGICAL RESEARCH (ICWQ, ICSW, ICGW, ICWR, ICASVR, ICCE)**
Friday, July 11
- HW04 SYSTEMS MODELING OF GLOBAL WATER DYNAMICS (ICWRS)**
Wednesday, July 9
- HW05 GROUNDWATER RESOURCES FOR EMERGENCY SITUATIONS (ICGW)**
Thursday, July 10
- HW06 ISOTOPE TRACERS IN WATER CYCLE MODELS (IAHS/ICT, IAEA)**
Monday, July 7 AM - Tuesday, July 8 AM
- HW07 TOWARDS A SCIENCE PROGRAM FOR PREDICTION IN UNGAUGED BASINS (ALL IAHS COMMISSIONS)**
Thursday, July 10 AM - Friday, July 11 PM
- HW08 PARAMETER ESTIMATION TECHNIQUES (IAHS/WMO WORKING GROUP ON GEWEX WITH THE SUPPORT OF ICSW AND ICASVR)**
Monday, July 7 AM - Wednesday, July 9 PM

IAMAS (International Association of Meteorological and Atmospheric Sciences)

- MI01 VARIATION OF THE SOLAR ENERGY OUTPUT AND ITS INFLUENCE ON CLIMATE (IRC, ICCI, ICACGP)**
Thursday, July 3
- MI02 CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)**
Monday, June 30 AM - Thursday, July 3 PM
- MI03 CHEMISTRY-CLIMATE INTERACTIONS (COVERS OZONE INTERACTIONS) (ICACGP, IOC, ICCI)**
Tuesday, July 8 AM - Wednesday, July 9 AM

MI05	LARGE SCALE PATTERNS OF ATMOSPHERIC VARIABILITY: DYNAMICS, CLIMATE IMPACTS, AND ROLE IN RECENT CLIMATE CHANGE (ICCI) Wednesday, July 9 AM - Friday, July 11 PM
MI06	THE DYNAMICS OF MID-LATITUDE AND POLAR WEATHER SYSTEMS OVER THE OPEN OCEAN (ICPM, ICDM) Tuesday, July 8 AM, Wednesday, July 9 PM
MI07	CLIMATE INTERACTION AT THE LAND-ATMOSPHERE INTERFACE Thursday, July 10 PM - Friday, July 11 PM
MI08	LABORATORY STUDIES ON ATMOSPHERIC ISSUES (ICCP, ICACGP, IRC) Monday, July 7 PM
MI09	NEW INSTRUMENTS AND TECHNOLOGY, ADVANCES IN REMOTE SENSING Tuesday, July 8 PM - Wednesday, July 9 PM
MI10	MODELING PRE-HOLOCENE CLIMATES (ICCI, IRC, ICACGP) Monday, June 30 AM - Tuesday, July 1 AM
MC01	INTER-CONTINENTAL TRANSPORT AND GLOBAL AND REGIONAL IMPACTS OF EMISSIONS OF ATMOSPHERIC TRACE GASES AND AEROSOLS FROM DIFFERENT CONTINENTS (ICACGP) Thursday, July 3 AM - Friday, July 4 AM
MC02	TYPHOONS IN ASIA: THEIR UNIQUE FEATURES (ICDM) Monday, July 7 AM - Tuesday, July 8 PM
MC03	DYNAMICS AND VARIABILITY OF MONSOON SYSTEMS (ICDM) Wednesday, July 9 AM - Friday, July 11 PM
MC04	PLANETARY ATMOSPHERES AND THEIR EVOLUTION (ICPAE) Thursday, July 10 PM - Friday, July 11 PM
MC05	MIDDLE ATMOSPHERE SCIENCE (ICMA) Friday, July 4, Monday, July 7 AM - Friday, July 11 PM
MC06	MESOSCALE FLOW REGIMES AND BOUNDARY LAYER PROCESSES (ICDM) Tuesday, July 1 PM - Wednesday, July 2 PM
MC07	OBSERVATIONAL AND MODEL ESTIMATES OF CLIMATE SENSITIVITY (ICDM) Monday, June 30
MC08	FUTURE CHANGES IN GLOBAL AND REGIONAL CLIMATE (ICDCI) Monday, July 7, Tuesday, July 8 PM
MC10	PROSPECTS FOR AND PAST EXAMPLES OF UNEXPECTED NONLINEARITIES, THRESHOLDS, AND SURPRISES IN THE CLIMATE SYSTEM (ICCI) Tuesday, July 1 AM, Wednesday, July 2 PM

MC11	CLIMATE MODEL EVALUATION: HOW WELL DO MODELS REPRESENT OBSERVATIONS (ICCI) Thursday, July 10 AM - Friday, July 11 PM
MC12	THE CLIMATE OF THE HOLOCENE (ICCI) Monday, July 7 AM - Tuesday, July 8 PM
MC14	DETECTING AND ATTRIBUTING THE EARLY SIGNS OF HUMAN INFLUENCES ON THE CLIMATE (ICCI) Monday, June 30 AM, Wednesday, July 2 AM
MC16	UNDERSTANDING AND PREDICTING DECADEAL-MULTIDECADEAL VARIATIONS (ICCI) Thursday, July 3 AM - Friday, July 4 AM
MC17	PROPAGATION MECHANISMS FOR THE MADDEN-JULIAN OSCILLATION (MJO) (ICDM) Thursday, July 10 AM - Friday, July 11 PM

IAPSO (International Association for the Physical Sciences of the Ocean)

P01	WESTERN BOUNDARY CURRENTS Wednesday, July 2 AM - Friday, July 4 PM
P02	MARGINAL AND SEMI-ENCLOSED SEAS AND THEIR EXCHANGE WITH THE OPEN OCEAN Monday, June 30 AM - Wednesday, July 2 PM
P03	THE ROLE OF TIDES, MESOSCALE PROCESSES, AND BOTTOM TOPOGRAPHY IN ENERGY TRANSFER AND MIXING Monday, June 30 AM - Tuesday, July 1 PM
P04	CHEMICAL AND ISOTOPIC TRACERS IN OCEAN CIRCULATION Tuesday, July 1 PM
P05	THE PHYSICAL OCEANOGRAPHY OF THE INDIAN OCEAN Monday, June 30 AM - Tuesday, July 1 AM
P06	THE SOUTHERN OCEAN (SCOR, SCAR) Wednesday, July 2 PM - Friday, July 4 PM

IASPEI (International Association of Seismology and Physics of the Earth's Interior)

SS01	SEISMOLOGICAL OBSERVATION AND INTERPRETATION Tuesday, July 1 AM - Thursday, July 3 AM
SS02	SEISMIC SOURCES: MODELING AND PREDICTION Wednesday, July 2 AM - Friday, July 4 AM
SS03	TECTONOPHYSICS AND CRUSTAL STRUCTURE Friday, July 4, Monday, July 7 AM - Tuesday, July 8 AM

- SS04 STRONG GROUND MOTION, EARTHQUAKE HAZARD AND RISK**
Monday, July 7 AM - Wednesday, July 9 PM,
Thursday, July 10 PM
- SS05 EDUCATION AND OUTREACH**
Thursday, July 10
- SW03 LITHOSPHERIC STRUCTURE OF A SUPERCONTINENT: GONDWANA**
Thursday, July 10
- SW04 EFFECTS OF EARTHQUAKES ON MEGACITIES**
Wednesday, July 9 PM
- SW05 NEW TECHNOLOGIES AND GEOPHYSICAL DATA CHALLENGES**
Thursday, July 10

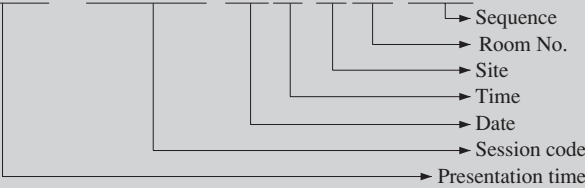
**IAVCEI (International Association of
Volcanology and Chemistry of the
Earth's Interior)**

- V05 VOLCANIC FLOWS: OBSERVATION, EXPERIMENT, AND THEORY**
Thursday, July 3 AM - Friday, July 4 PM
- V06 ORIGINS OF ARC MAGMA**
Monday, June 30, Tuesday, July 1 PM
- V07 SUBAQUEOUS VOLCANISM, VOLCANOGENIC SEDIMENTATION AND HYDROTHERMAL SYSTEMS**
Wednesday, July 2 AM - Thursday, July 3 PM
- V08 CALDERA FORMATION AND UNREST**
Wednesday, July 2, Thursday, July 3 PM -
Friday, July 4 AM
- V09 REASSESSING THE VOLCANIC PLUTONIC LINK**
Friday, July 4 AM
- V10 VOLCANO STRUCTURE AND SCIENTIFIC DRILLING**
Tuesday, July 1 AM - Wednesday, July 2 AM
- V11 INTEGRATED MONITORING OF ACTIVE VOLCANOES**
Thursday, July 3 AM - Friday, July 4 AM
- V12 DETECTING MAGMA CHAMBERS**
Tuesday, July 1
- V13 ASSESSING VOLCANIC RISK**
Friday, July 4

Paper Numbers

Oral Presentation

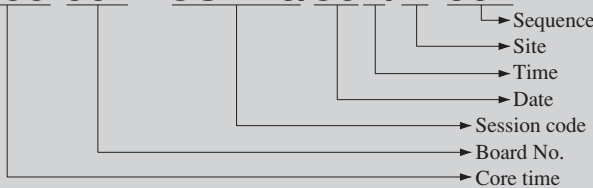
0830 JSV03/30A/A01-001



Example: 0830 JSV03/30A/A01-001 = Presentation begins at 8:30, JSV03, June 30, presentation in the morning (AM), Site A, Room 1, first paper in that session

Poster Presentation

1600-001 JSA10/30P/D-001



Example: 1600-001 JSA10/30P/D-001 = Core time begins at 16:00, Poster Board No.: 001, JSA10, June 30, core time in the afternoon (PM), Site D, first paper in that session

Monday, June 30 AM

IA INTER-ASSOCIATION

JSA03 Monday, June 30 AM

EQUATORIAL MIDDLE ATMOSPHERE-THERMOSPHERE-IONOSPHERE DYNAMICS AND ENERGETICS (IAGA, IAMAS, SCOSTEP)

Location: Site A, Room 4

Conveners: M.A. Abdu, K. Hamilton
Co-Conveners: K. Shiokawa, R. Sridharan
Presiding Chairs: R.A. Vincent, T. Tsuda

0830 JSA03/30A/A04-001
DYNAMICAL COUPLING PROCESSES IN THE EQUATORIAL ATMOSPHERE
Toshitaka TSUDA

0855 JSA03/30A/A04-002
THE QUASI-BIENNIAL OSCILLATION: EFFECTS ON THE TROPOSPHERE, STRATOSPHERE, MESOSPHERE, AND IONOSPHERE AND COMMENTS ON THE VARIABILITY AND PREDICTABILITY OF THE OSCILLATION
Timothy J. DUNKERTON, Mark P. BALDWIN, George MELLMAN

0920 JSA03/30A/A04-003
ZONAL VARIATIONS OF THE EQUATORIAL QUASI-BIENNIAL OSCILLATION
Kevin HAMILTON, Albert HERZOG, Francois VIAL, Georgiy STENCHIKOV

0940 JSA03/30A/A04-004
INFLUENCE OF TROPOSPHERIC SOURCES ON VARIABILITY OF THE DIURNAL TIDE IN THE MESOSPHERE AS OBSERVED BY MF RADAR
Dennis M. RIGGIN, Ruth S. LIEBERMAN, Robert A. VINCENT

1000 JSA03/30A/A04-005
AIRGLOW IMAGER OBSERVATIONS OF ATMOSPHERIC GRAVITY WAVES AT ALICE SPRINGS AND ADELAIDE AUSTRALIA DURING THE DARWIN WAVE EXPERIMENT (DAWEX)
James H. HECHT, Richard L. WALTERSCHEID, Jonathan WOYHE

1020 BREAK

1040 JSA03/30A/A04-006
MF RADAR STUDIES OF TIDE/GRAVITY WAVE INTERACTIONS AT THE EQUATOR
Robert Alan VINCENT, Sujata KOVALAM

1105 JSA03/30A/A04-007
AN OBSERVATIONAL STUDY OF THE CAUSATIVE MECHANISMS FOR THE SHORT-TERM VARIABILITIES OF DIURNAL TIDE AT LOW LATITUDE MLT HEIGHTS
S. SRIDHARAN, S. GURUBARAN, R. RAJARAM

1125 JSA03/30A/A04-008
STUDY OF GRAVITY WAVES IN THE LOW LATITUDE MESOSPHERE
Ramaswamy RAJARAM, Girija Kumar MUKHERJI, Subramanian GURUBARAN, Parasram Tukaram PATIL, Ashok SHARMA

1145 JSA03/30A/A04-009
SHORT-PERIOD AND LONG-PERIOD WAVES IN THE EQUATORIAL MIDDLE ATMOSPHERE- AN OBSERVATIONAL STUDY
Sasi M. NARAYANAN

1210 JSA03/30A/A04-010
LOW-LATITUDE MIDDLE ATMOSPHERIC TIDAL STRUCTURE OBTAINED USING LIDAR AND MST RADAR AT GADANKI (13.5 N, 79.2 E)
Sasi M. NARAYANAN, Geetha RAMKUMAR, Bhavanikumar Y.

JSA10 Monday, June 30 AM

ELECTROMAGNETIC IMAGING AND MONITORING OF VOLCANOES AND ACTIVE FAULTS (IAGA, IASPEI, IAVCEI)
Location: Site A, Room 10

Conveners: V.V. Spichak
Co-Conveners: T. Mogi
Presiding Chairs: V. Spichak, T. Mogi

0830 JSA10/30A/A10-001
ELECTRICAL STUDIES OF THE ALPINE FAULT, NEW ZEALAND
Malcolm INGHAM

0850 JSA10/30A/A10-002
2D ELECTRICAL STRUCTURES OF THE CHELUNGPU THRUST AND AROUND THE HYPOCENTRAL AREA OF THE 1999 CHI-CHI, TAIWAN, EARTHQUAKE
Chien-chih CHEN, Chow-Son CHEN

0910 JSA10/30A/A10-003
MAGNETOTELLURIC IMAGING OF M5.0 MAIN SHOCK AT THE DEEP EXTENSION OF NAGAMACHI-RIFU FAULT IN SENDAI CITY, JAPAN
Yasuo OGAWA, Masaaki MISHINA, Yoshimori HONKURA, Kousuke TAKAHASHI, S. Bulent TANK

0930 JSA10/30A/A10-004
STRUCTURAL ANALYSIS OF FRACTURE ZONES IN DEEP PARTS OF ACTIVE FAULTS IN SOUTHWESTERN JAPAN USING MAGNETOTELLURIC SURVEY
Hisafumi ASAE

0950 JSA10/30A/A10-005
THREE-DIMENSIONAL INTERPRETATION OF SCALAR CSAMT DATA COLLECTED IN THE NORTHERN PART OF THE MINOU FAULT ZONE
Vjacheslav V. SPICHAK, K. FUKUOKA, T. KOBAYASHI, T. MOGI, I. POPOVA, H. SHIMA

1010 BREAK

1030 JSA10/30A/A10-006
THREE DIMENSIONAL RESISTIVITY STRUCTURE AT THE BLOUNDARY OF SEISMIC AND ASEISMIC ZONE IN NORTHERN HOKKIDO, JAPAN
Toru MOGI, Toshihiro UCHIDA, Tae Jong LEE, Hideyuki SATO, Koichi FUKUOKA, Shin TAMURA, Nagendra Pratap SINGH, Kenji WATANABE, Tomohiro GOTO

1050 JSA10/30A/A10-007
IMAGING MAGNETIC AND ELECTRIC PROPERTIES OF THE UNDERGROUND IN VOLCANIC AND ACTIVE FAULTS AREAS BY MEANS OF GEOMAGNETIC ARRAYS
Crisan DEMETRESCU, Toru MOGI, Venera DOBRICA, Masamitsu TAKADA

1110 JSA10/30A/A10-008
CONSIDERATIONS ON THE ANOMALOUS OBSERVATION OF THE PULSE GEO-ELECTRIC CURRENT DURING FEBRUARY 2000 AND MARCH 2001 SUPPOSEDLY ASSOCIATED WITH THE ERUPTION OF USU VOLCANO
Yutaka MURAKAMI, Hiroshi HASHIMOTO, Nobumasa SHIRAI, Tadashi NAKATSUKA, Yuji ENOMOTO

1130 JSA10/30A/A10-009
OBSERVATIONS OF NATURAL ELECTROMAGNETIC PHENOMENA USING DUAL FREQUENCY METHOD IN VHF BAND
Masahiro NISHI, Teruaki YOSHIDA

1150 JSA10/30A/A10-010
PHASE-GRADIENT METHOD OF INVESTIGATION OF ULF GEOMAGNETIC VARIATIONS IN SEISMIC ACTIVE ZONE
Valeri S. ISMAGILOV, Yuri A. KOPYTENKO, Katsumi HATTORI, Masashi HAYAKAWA

WEEK
A
MON
AM

JSM01 Monday, June 30 AM

TOWARD HIGH RESOLUTION CLIMATE MODELS AND EARTH SYSTEM MODELS (IAMAS, IAPSO)

*Co-Sponsored by the Center for Climate System Research,
University of Tokyo*

Location: Site B, Room 18

Conveners: A. Sumi, P.H. Stone, P. Rizzoli, H.C. Davies
Presiding Chair: H. Davies

0900 JSM01/30A/B18-001

ATMOSPHERIC COMPONENT OF THE CCSR/NIES/FRSGC MODEL FOR FUTURE CLIMATE CHANGE PROJECTION ON THE EARTH SIMULATOR
Seita EMORI, Teruyuki NISHIMURA, Tsuneaki SUZUKI, Shinji MATSUMURA, Fuyuki SAITO, Takahiro INOUE, Tomoo OGURA, Ayako ABE-OUCHI, Masahide KIMOTO, Hiroshi KANZAWA, Akimasa SUMI

0915 JSM01/30A/B18-002

DEVELOPMENT OF A 20KM MESH GLOBAL NWP MODEL ON THE EARTH SIMULATOR
Keiichi KATAYAMA, Hiromasa YOSHIMURA, Takayuki MATSUMURA

0930 JSM01/30A/B18-003

DOUBLE-FOURIER-SERIES SPECTRAL METHOD FOR THE MULTI-LAYER PRIMITIVE EQUATION ON THE SPHERE
Hyeong Bin CHEONG, Tae Young GOO, In Hyuk KWON, Min Kyu KANG

0945 JSM01/30A/B18-004

SIMULATION OF SUPER CLUSTERS ON THE AQUA-PLANET BY USING A NON-HYDROSTATIC MODEL
Akimasa SUMI, Xueshun SHEN

1000 JSM01/30A/B18-005

GLOBAL CLIMATE SIMULATIONS WITH A CLOUD-SYSTEM RESOLVING MODEL AS THE SUPER-PARAMETERIZATION OF CLOUDS
Marat KHAIRROUTDINOV, David RANDALL

1015 JSM01/30A/B18-006

THE CONVERGENCE PROBLEM OF MODEL PHYSICS: ILLUSTRATIONS FROM NONHYDROSTATIC MODEL EXPERIMENTS
Akio ARAKAWA, Joon-Hee JUNG

1030 BREAK

1100 JSM01/30A/B18-007

A NONHYDROSTATIC GLOBAL MODEL ON THE ICOSAHEDRAL GRID SYSTEM
Hirofumi TOMITA, Masaki SATOH, Koji GOTO

1115 JSM01/30A/B18-008

A COMPARISON OF ERROR REDUCTION SCHEMES FOR A SHALLOW WATER MODEL ON A SPHERICAL GEODESIC GRID
Hiroaki MIURA, Masahide KIMOTO

1130 JSM01/30A/B18-009

TOWARD CLOUD-RESOLVING MODELING OF ATMOSPHERIC GENERAL CIRCULATION
Wojciech W. GRABOWSKI, David A. RANDALL, Marat KHAIRROUTDINOV, Akio ARAKAWA

JSM09 Monday, June 30 AM

INTENSE VORTICES FROM THE SMALL SCALE TO THE PLANETARY SCALE (IAMAS [ICDM], IAPSO)

Location: Site C, Room 29

Convener: M.T. Montgomery
Presiding Chair: M.T. Montgomery

POLAR VORTICES AND OCEAN VORTICES

0830 JSM09/30A/C29-001

INTERACTION OF SYNOPTIC-SCALE VORTICES WITH A GREENLAND-SCALE MOUNTAIN
Huw C. DAVIES, Cornelia SCHWIERZ

0850 JSM09/30A/C29-002

OPEN OCEAN DEEP CONVECTION FROM A HIGH RESOLUTION GENERAL OCEAN CIRCULATION MODEL
Young-Gyu PARK, Yign NOH, Bo-Young YIM

0910 JSM09/30A/C29-003

ON THE STABILITY OF OCEANIC VORTICES: THE SOLUTION TO THE PROBLEM
Eugene BENOLOV

0930 JSM09/30A/C29-004

STEADY MULTIPOLAR PLANAR VORTICES
Roger H.J. GRIMSHAW, Philippe CAILLOL

0950 JSM09/30A/C29-005

INSTABILITY CONDITIONS AND STRUCTURE OF NORMAL MODES FOR THE LEGENDRE-POLYNOMIAL FLOWS, ROSSBY HAURWITZ WAVES, WU-VERKLEY WAVES AND MODONS

Iouri N. SKIBA

1010 DISCUSSION

1020 BREAK

TROPICAL CYCLONE OBSERVATIONS

1040 JSM09/30A/C29-006

RECENT OBSERVATIONS OF TROPICAL CYCLONE STRUCTURE FROM DOPPLER RADARS
Frank D. MARKS

1110 JSM09/30A/C29-007

VORTEX INTERACTIONS DURING TROPICAL CYCLONE FORMATION AND INTENSIFICATION
John E. MOLINARI, David VOLLARO, Kristen L. CORBOSIERO

1140 JSM09/30A/C29-008

OBSERVATIONS OF TROPICAL CYCLONE EYE WALL MESOVORTEX STRUCTURE AND EVOLUTION
Peter Gerard BLACK

1210 JSM09/30A/C29-009

THREE DIMENSIONAL WIND CHARACTERISTICS OF TROPOSPHERE AND LOWER STRATOSPHERE DURING THE PASSAGE OF A TROPICAL CYCLONE
Mrudula G, Mohan Kumar K, Kishore Kumar K

JSM18 Monday, June 30 AM

MEASUREMENT AND DISTRIBUTION OF PRECIPITATION (IAMAS [ICCP, IPCM], IAHS)

Location: Site B, Room 20

Conveners: C. Kummerow, E. Zipser, S. Lovejoy
Presiding Chair: C. Kummerow

0830 JSM18/30A/B20-001

Invited

REGIONAL AND SEASONAL VARIATIONS OF PRECIPITATION CHARACTERISTICS ANALYZED WITH TRMM PRECIPITATION RADAR DATA AND IMPLICATIONS TO PRECIPITATION ESTIMATES AND ERRORS.
Yukari N. TAKAYABU

0900 JSM18/30A/B20-002

Invited

INTERANNUAL VARIABILITY OF THE TROPICAL WATER CYCLE: CAPABILITIES IN THE TRMM ERA AND CHALLENGES FOR GPM
Franklin Rivers ROBERTSON

0930 JSM18/30A/B20-003

Invited

ESTIMATING UNCERTAINTY IN GPCP AND TRMM MULTI-SATELLITE PRECIPITATION ESTIMATES
George J. HUFFMAN, Robert F. ADLER

1000 BREAK

Presiding Chair: T. Wilheit

1015 JSM18/30A/B20-004

SPECTRAL RETRIEVAL OF LATENT HEATING PROFILES FROM TRMM PR DATA.: COMPARISON OF LOOK-UP TABLES
Shoichi SHIGE, Yukari N. TAKAYABU, Wei-Kuo TAO, Daniel E. JOHNSON, Chung-Lin SHIE

1030 JSM18/30A/B20-005

INCREASING THE PREDICTION CAPABILITY OF RAINFALL MODELS WITH THE RELATIONSHIP BETWEEN ENSO EVENTS AND RAINFALL IN MEXICO
Isidro Roberto CRUZ

1045 JSM18/30A/B20-006

EVALUATION OF PRECIPITATION PRODUCTS IN THE TROPICAL INDIAN OCEAN USING AN OCEAN MODEL
Zuojun YU, Julian P. MCCREARY

1100 JSM18/30A/B20-007

VALIDATION OF TRMM RAINFALL ESTIMATES FOR CLIMATE APPLICATIONS
Wesley K BERG

1115 JSM18/30A/B20-008

UNCERTAINTIES IN THE RETRIEVAL OF OCEANIC RAINFALL FROM PASSIVE MICROWAVE MEASUREMENTS.
Thomas T. WILHEIT, R. CHEN, K. FENG, S-W HONG, K-W JIN, R. WEITZ

1130 JSM18/30A/B20-009

SPACEBORNE DUAL-FREQUENCY PRECIPITATION RADAR FOR GLOBAL PRECIPITATION MEASUREMENT
Shinsuke SATOH, Riko OKI, Toshio IGUCHI, Kenji NAKAMURA

1145 JSM18/30A/B20-010

PRECIPITATION PROFILE RETRIEVAL USING MICROWAVE SOUNDER DATA
Peter BAUER

JWM01 **Monday, June 30 AM**

WATER AND ENERGY BUDGET WORKSHOP (IAMAS, IAHS)

Location: Site C, Room 24

Conveners: J. Roads, R. Stewart, T. Oki, A. Hall
Presiding Chairs: J. Roads, J. Kao

0945 JWM01/30A/C24-001

GCIP WATER AND ENERGY BUDGET SYNTHESIS (WEBS)
John O. ROADS

1000 JWM01/30A/C24-002

ATMOSPHERIC WATER BUDGET VIEWED AS A THREE-COMPONENT EXCHANGE DIAGRAM
Masao KANAMITSU

1015 JWM01/30A/C24-003

ATMOSPHERIC ENTHALPY BUDGET FOR THE MACKENZIE RIVER BASIN WITH APPLICATION TO UNDERSTANDING THE INTERANNUAL VARIABILITY OF THE BASIN WINTER TEMPERATURES
Kit K. SZETO

1030 JWM01/30A/C24-004

APPLICATION OF MAXIMUM LAND AND WATER SURFACE TEMPERATURE MAPS IN THE MACKENZIE GEWEX STUDY
Normand BUSSIERES

1045 JWM01/30A/C24-005

STUDIES ON THE WATER BALANCE OF THE AMAZON BASIN: CHARACTERISTICS AND SPACE-TIME VARIABILITY
Jose A. MARENGO

1100 BREAK

1130 JWM01/30A/C24-006

WATER BALANCE STUDY OF THE LENA RIVER BASIN, EASTERN SIBERIA
Kooiti MASUDA, Tetsuo OHATA, Yoshiaki FUKUTOMI, Rikie SUZUKI

1145 JWM01/30A/C24-007

ENERGY BALANCE CLOSURE OBSERVED AT GAME-AN SITES
Shin MIYAZAKI, Osamu TSUKAMOTO, Ichiro KAIHOTSU, Motomu TODA, Nobuhito OHTE, Tetsuzo YASUNARI, Taikan OKI

1200 JWM01/30A/C24-008

ENERGY AND WATER BUDGET IN THE LAKE BIWA BASIN JAPAN
Kenji TANAKA, Kenji ISHIOKA, Eiichi NAKAKITA, Shuichi IKEBUCHI

1215 JWM01/30A/C24-009

AN ESTIMATION OF HEAT AND WATER BALANCES OVER THE TIBETAN PLATEAU DURING 1997-1998
Jianqing XU, Shigenori HAGINOYA, Kooiti MASUDA

JSP01 **Monday, June 30 AM**

THE DECADAL TO CENTENNIAL VARIABILITY OF THE OCEAN AND ATMOSPHERE (IAPSO, IAMAS, CLIVAR)

Location: Site B, Room 21

Convenor: S. Minobe
Co-Conveners: R.A. Wood, D.S. Battisti
Presiding Chairs: N. Schneider, S. Minobe

0835 JSP01/30A/B21-001

ON THE TROPICAL ORIGIN OF DECADAL CLIMATE VARIABILITY
Fei-Fei JIN

0905 JSP01/30A/B21-002

INTERANNUAL AND INTERDECADAL VARIABILITY IN INTERMEDIATE COUPLED MODELS OF THE TROPICAL PACIFIC: ROLE OF THE OCEANIC VERTICAL STRUCTURE VARIABILITY VERSUS ATMOSPHERIC HIGH FREQUENCY FLUCTUATIONS
Boris DEWITTE, Dacha GUSHCHINA, Yves DUPENHOAT

0925 JSP01/30A/B21-003

A DELAYED ACTION OSCILLATOR SHARED BY BIENNIAL, INTERANNUAL, AND DECADAL SIGNALS IN THE PACIFIC BASIN
Warren Bradley WHITE, Yves M. TOURRE

0945 JSP01/30A/B21-004

DECADAL VARIABILITY IN THE NORTH PACIFIC: THE EASTERN NORTH PACIFIC MODE
Lixin WU, Zhengyu LIU

1005 JSP01/30A/B21-005

ON THE MECHANISM OF RESONANCE OF BIDECADEAL AND PENTADECADEAL OSCILLATIONS: IMPLICATIONS ON REGIME SHIFTS OF PACIFIC DECADAL OSCILLATION
Shoshiro MINOBE

1025 BREAK

1045 JSP01/30A/B21-006

DECADAL CLIMATE VARIABILITY IN THE PACIFIC OCEAN
Suwimol SAE-KOE, Kevin James Edward WALSH, Ian SIMMONDS

1105 JSP01/30A/B21-007

THE EFFECT OF AN ANOMALOUSLY HIGH WARMPOOL SST ON THE MAGNITUDE OF EL NIÑO WARMING
De-Zheng SUN

1125 JSP01/30A/B21-008

PROXY RECONSTRUCTION OF PACIFIC SST VARIABILITY PATTERNS
Alexander GERSHUNOV, Michael EVANS, Malcolm HUGHES

1145 JSP01/30A/B21-009

IMPACT OF BIDECADEAL OSCILLATION ON PRECIPITATION VARIABILITY: SEASONAL DEPENDENCE
Takuya NAKANOWATARI, Shoshiro MINOBE

1205 JSP01/30A/B21-010

TRENDS IN TROPICAL ENERGY AND WATER CYCLE IN RECENT TWO DECADES
Tetsuzo YASUNARI, Kooiti MASUDA, Hiromichi IGARASHI, Tomohiko TOMITA

JSS01-Posters **Monday, June 30 AM**

HAGIWARA SYMPOSIUM ON MONITORING AND MODELING OF EARTHQUAKE AND VOLCANIC PROCESSES FOR PREDICTION

Co-Sponsored by the National Research Institute for Earth Science and Disaster Prevention

Location: Site D

Convenor: K. Aki
Presiding Chairs: K. Obara, J. Anshu

0830-047 JSS01/30A/D-001

Poster

EARTHQUAKE FORECASTING: A NEW UNDERSTANDING OF ROCK DEFORMATION
Stuart CRAMPIN, Yuan GAO, Sebastien CHASTIN, Theodora VOLT

0830-048 JSS01/30A/D-002

Poster

EARTHQUAKE AND VOLCANIC PROCESSES MONITORING SYSTEM WITH THE VIBRATION SEISMIC SOURCES
Valery V. KOVALEVSKY, Boris M. GLINSKY

0830-049 JSS01/30A/D-003

Poster

'ACROSS' SYSTEM FOR DETECTING THE TEMPORAL CHANGE IN THE PROPAGATION OF THE ELASTIC WAVE IN TOKAI DISTRICT
Koshun YAMAOKA, Ryoya IKUTA, Takahiro KUNITOMO

0830-050 JSS01/30A/D-004

Poster

THE MONITORING METHODOLOGY OF UNDERGROUND STATES BY ACROSS (ACCURATELY CONTROLLED, ROUTINELY OPERATED SIGNAL SYSTEM) AS A MEASUREMENT METHOD OF LINEAR DYNAMIC SYSTEM
Mineo KUMAZAWA, Takahiro KUNITOMO, Takahiro NAKAJIMA, Kayoko TSURUGA, Yoko HASADA, Hiromichi NAGAO, Hiroshi MATSUMOTO, Naotaka SHIGETA

0830-051 JSS01/30A/D-005

Poster

OPTIMUM FM SIGNAL FOR MONITORING THE UNDERGROUND STATES BY MEANS OF THE SEISMIC ACROSS
Takahiro KUNITOMO, Mineo KUMAZAWA

0830-052 JSS01/30A/D-006

Poster

THE BROADCAST STATION OF ACROSS SIGNALS ON SEISMIC OBSERVATION NETWORKS FOR MONITORING THE EARTH'S CRUST, THE START AT TONO MINE
Takahiro KUNITOMO, Mineo KUMAZAWA, Koshun YAMAOKA

0830-053 JSS01/30A/D-007

Poster

WEIGHTED STACKING METHOD FOR RECEIVED SIGNALS IN ACROSS SYSTEM
Hiromichi NAGAO, Takahiro NAKAJIMA, Mineo KUMAZAWA, Takahiro KUNITOMO

0830-054 JSS01/30A/D-008

Poster

TRAVEL-TIME ANALYSIS OF FREQUENCY-DOMAIN DATA OBTAINED BY ACROSS SYSTEM
Yoko HASADA, Mineo KUMAZAWA

0830-055 JSS01/30A/D-009

Poster

SECONDARY CALIBRATION METHOD OF SEISMOMETERS BY USING ACROSS SIGNALS AND REFERENCE ACCELEROMETERS
Kayoko TSURUGA, Takahiro KUNITOMO, Mineo KUMAZAWA, Naotaka SHIGETA

0830-056 JSS01/30A/D-010

Poster

OBSERVATIONS OF THE TRANSFER FUNCTION USING AN ELECTROMAGNETIC SOUNDING SYSTEM, EM-ACROSS
Takahiro NAKAJIMA, Takahiro KUNITOMO, Mineo KUMAZAWA, Naotaka SHIGETA, Hiromichi NAGAO

WEEK
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0830-057 JSS01/30A/D-011 Poster
CONTINUOUS MULTI-COMPONENT MONITORING OF CRUSTAL ACTIVITIES BY A NEWLY DEVELOPED INSTRUMENT INSTALLED IN A 1200 M DEPTH BOREHOLE -THE DEEPEST MULTIPLE OBSERVATION IN THE WORLD CONSISTING OF STRESS, STRAIN, TILT, SEISMIC WAVES, GEOMAGNETISM, TEMPERATURE-
Hiroshi ISHII, Tsuneo YAMAUCHI, Yasuhiro ASAI, Makoto OHKUBO, Shigeo MATSUMOTO, Harumi AOKI

0830-058 JSS01/30A/D-012 Poster
THREE DIMENSIONAL ARRAY OBSERVATION OF CRUSTAL MOVEMENTS BY USING DEEP BOREHOLES AND A VAULT, ACTIVE EXPERIMENTS BY PUMPING UP GROUNDWATER AND THEIR APPLICATION TO POROELASTIC THEORY
Yasuhiro ASAI, Hiroshi ISHII, Harumi AOKI, Tsuneo YAMAUCHI, Torao TANAKA, Shigeo MATSUMOTO

0830-059 JSS01/30A/D-013 Poster
LASER INTERFEROMETRIC WIDEBAND SEISMOMETER FOR BOREHOLE OBSERVATIONS
Akito ARAYA

0830-060 JSS01/30A/D-014 Poster
DEVELOPMENT OF A HIGHLY-SENSITIVE/BROAD-BAND SERVO-TYPE SEISMOMETER USING AN ASTABLE ROTATIONAL PENDULUM
Yuji OTAKE, Akito ARAYA, Kazuo HIDANO

0830-061 JSS01/30A/D-015 Poster
TEMPERATURE MONITORING IN A BOREHOLE DRILLED INTO AN ACTIVE FAULT ZONE: WATER INJECTION EXPERIMENTS AND NATURAL GROUNDWATER OUTFLOW
Makoto YAMANO, Shusaku GOTO

0830-062 JSS01/30A/D-016 Poster
A CONTROLLED-SOURCE, TIME-LAPSE TOMOGRAPHY MODEL
Rudolf UNGER, Jacob T. FOKKEMA, Peter M. VAN DEN BERG

0830-063 JSS01/30A/D-017 Poster
DETECTION OF SIGNIFICANT CHANGES IN THE BACKGROUND SEISMICITY
Yoshiki TSUKAKOSHI, Kunihiro SHIMAZAKI

0830-064 JSS01/30A/D-018 Poster
INTEGRATED SEARCH FOR TAIWAN EARTHQUAKE PRECURSORS
Yi-Ben TSAI, Kuo-Fong MAR, Horng-Yuan YEN, Kun-Shan CHEN, Jann-Yenq LIU, Yuh-Ing CHEN

0830-065 JSS01/30A/D-019 Poster
LONG-TERM EARTHQUAKE PREDICTION FOR THE KURIL-KAMCHATKA ARC BASED ON REGULARITIES OF SEISMIC GAPS AND SEISMIC CYCLE: RESULTS IN 1965-2000, PREDICTION FOR 2001-2005, AND POSSIBILITIES
Sergei Alexandrovich FEDOTOV, Sergei Dmitrievich CHERNYSHEV

0830-066 JSS01/30A/D-020 Poster
LONG-TERM EARTHQUAKE FORECASTS IN JAPAN FROM 1996 TO 2003
Kunihiro SHIMAZAKI

0830-067 JSS01/30A/D-021 Poster
EARTHQUAKE PREDICTION: FUNDAMENTALS, ACHIEVEMENTS, PERSPECTIVES
Vladimir G. KOSSOBOKOV

0830-068 JSS01/30A/D-022 Poster
ANALYZING THE SPATIAL VARIABILITY OF THE LONG-RANGE BEHAVIOUR IN THE TIME DYNAMICS OF ITALIAN SEISMICITY
Luciano TELESKA, Vincenzo LAPENNA, Maria MACCHIATO

0830-069 JSS01/30A/D-023 Poster
EARTHQUAKE MONITORING SYSTEM IN INDONESIA (CURRENT AND FUTURE)
Fauzi FAUZI, Gunawan IBRAHIM

0830-070 JSS01/30A/D-024 Poster
REAL-TIME MONITORING OF SEISMIC ACTIVITY FOR PREDICTING LARGE EARTHQUAKES
Leontina L. ROMASHKOVA, Vladimir G. KOSSOBOKOV, John H. HEALY, Seiya UYEDA, Toshiyasu NAGAO, Giuliano F. PANZA, Nicolai N. TSYBIN

0830-071 JSS01/30A/D-025 Poster
LARGE EARTHQUAKES IN HOKKAIDO AND THE COMPLEX GEODYNAMICS ON THE CONTINENTAL MARGIN
Yoshinobu MOTOYA, Takeo MORIYA, Tsutomu SASATANI, Haruyoshi ISHIKAWA, Munee OKAYAMA, Masamitsu TAKADA, Masayoshi ICHIYANAGI, Hiroaki TAKAHASHI, Minoru KASAHARA

0830-072 JSS01/30A/D-026 Poster
EARTHQUAKE CLUSTERING IN SOUTHERN CALIFORNIA
Rodolfo CONSOLE, David D. JACKSON

0830-073 JSS01/30A/D-027 Poster
THE PROCESS OF THE EARTHQUAKE FROM THE POINT OF VIEW OF HYDROSHOCK MODEL
Gulnora Dgahangirovna RASULOVA, Dgahangir Khasanovich RASULOV

0830-074 JSS01/30A/D-028 Poster
IN SITU MODELLING OF SEISMO-ELECTROMAGNETIC PHENOMENA USING TIDAL VARIATIONS OF APPARENT RESISTIVITY
Alexander K. SARAIEV, Mikhail I. PERTEL, Zinoviy M. MALKIN

0830-075 JSS01/30A/D-029 Poster
NEW RESULTS OBTAINED THROUGH THE ELECTROMAGNETIC METHOD FOR SHORT-TERM PREDICTION OF VRANCEA (ROMANIA) EARTHQUAKES
Dumitru ENESCU, Iren MOLDOVAN, Bogdan ENESCU

0830-076 JSS01/30A/D-030 Poster
MULTIFRACTAL AND CHAOTIC PROPERTIES OF VRANCEA (ROMANIA) INTERMEDIATE-DEPTH EARTHQUAKES-ANALYSIS OF THE TEMPORAL DISTRIBUTION OF EVENTS-
Bogdan D. ENESCU, Kiyoshi ITO, Mircea RADULIAN, Emilia POPESCU, Olivia BAZACLIU

0830-077 JSS01/30A/D-031 Poster
DETAILED SEISMICITY AND CRUSTAL STRUCTURE IN THE ATOTSUGAWA FAULT, A PARTLY CREEPING FAULT, CENTRAL HONSHU, JAPAN
Kiyoshi ITO, Hiroo WADA, Shiro OHMI, Tomotake UENO, Koji YOSHII

0830-078 JSS01/30A/D-032 Poster
SPATIO-TEMPORAL GEOINFORMATION MODELING FOR EXPLORATION OF EARTHQUAKE PREPARATION PROCESSES
Valeri G. GITIS, Gennadi A. SOBOLEV, Aleksandr V. PONOMAREV, Vladimir KAZAKOV, Larisa KURSKEEVA, Oleg BELOSLUDTSEV

0830-079 JSS01/30A/D-033 Poster
RESEARCH OF SEISMIC CYCLE BY METHOD OF SPATIAL EPICENTRIC STRUCTURES
Alexey Vladimirovich SOLOMATIN

0830-080 JSS01/30A/D-034 Poster
RECOGNITION PATTERN IN ALBORZ
Massoume ESKANDARI

0830-081 JSS01/30A/D-035 Poster
A NONPARAMETRIC HAZARD MODEL TO CHARACTERIZE THE SPATIO-TEMPORAL OCCURRENCE OF LARGE EARTHQUAKES; AN APPLICATION TO THE ITALIAN CATALOG
Licia FAENZA, Warner MARZOCCHI, Francesca CINTI, Paola MONTONE

0830-082 JSS01/30A/D-036 Poster
PROBABILISTIC SEISMIC HAZARD MAPS FROM SEISMICITY PATTERNS ANALYSIS. THE IBERIAN PENINSULA (SPAIN) CASE.
Abigail JIMÉNEZ, Antonio Miguel POSADAS, Takayuki HIRATA

0830-083 JSS01/30A/D-037 Poster
NEW VIEW ON THE RECURRENCE PATTERN OF GREAT INTERPLATE EARTHQUAKES ALONG THE NORTHERN JAPAN - SOUTHERN KURILE TRENCHES
Tomoya HARADA, Katsuhiko ISHIBASHI

0830-084 JSS01/30A/D-038 Poster
PERCOLATION MODEL OF SEISMIC ACTIVITY
Dmitry Igorevich IUDIN

0830-085 JSS01/30A/D-039 Poster
THE PRE-SLIP OF THE 1944 TONANKAI EARTHQUAKE ESTIMATED FROM THE LEVELING JUST BEFORE THE EARTHQUAKE
Kazutomo TAKANO, Fumiaki KIMATA, Masataka ANDO

0830-086 JSS01/30A/D-040 Poster
REPEATED SLOW SLIP EVENTS AND THE OCCURRENCE PROCESS OF THE LARGE EARTHQUAKES IN THE TOKAI REGION, CENTRAL JAPAN.
Fumiaki KIMATA, Kazuro HIRAHARA, Naoyuki KIMATA

0830-087 JSS01/30A/D-041 Poster
A FIVE YEARS SUPER-SLOW ASEISMIC PRECURSOR MODEL FOR THE 1994 M8.3 HOKKAIDO-TOHO-OKI LITHOSPHERIC EARTHQUAKE BASED ON TIDE GAUGE DATA
Kei KATSUMATA, Minoru KASAHARA, Shinzaburo OZAWA, Alexei IVASHCHENKO

0830-088 JSS01/30A/D-042 Poster
SILENT EARTHQUAKES OCCURRING IN A TRANSITION ZONE AND ITS IMPLICATION FOR EARTHQUAKE PREDICTION
Ichiro KAWASAKI

0830-089 JSS01/30A/D-043 Poster
TEMPORAL VARIATION OF TIDAL CONSTITUENTS PRIOR TO EARTHQUAKES AND VOLCANIC ACTIVITY
Issei HIROSE, Ichiro KAWASAKI, Shuzo TAKEMOTO, Yoshiaki TAMURA, Yoshimitsu OKADA

0830-090 JSS01/30A/D-044 Poster
A SILENT THRUST EVENT IN THE TOKAI REGION AND A POSSIBLE CHANGE IN COUPLING BETWEEN THE PHILIPPINE SEA PLATE AND THE PACIFIC PLATE, OFF THE COAST OF THE BOSO PENINSULA, CENTRAL JAPAN
Shinzaburo OZAWA, Makoto MURAKAMI, Masaru KAIDZU, Tetsuo IMAKIIRE, Yuki HATANAKA, Takeshi SAGIYA, Hiroshi YARAI, Takuya NISHIMURA

0830-091 JSS01/30A/D-045 Poster
 TIME DEPENDENT MODEL OF THE SLOW SLIP EVENT IN THE TOKAI REGION,SOUTH CENTRAL JAPAN,DETECTED BY GPS MEASUREMENTS IN 2001
 Yusaku OHTA, F. KIMATA

0830-092 JSS01/30A/D-046 Poster
 NON-VOLCANIC DEEP LOW-FREQUENCY TREMOR ASSOCIATED WITH SUBDUCTION IN SOUTHWEST JAPAN
 Kazushige OBARA

0830-093 JSS01/30A/D-047 Poster
 RUPTURE PROCESS OF AN EARTHQUAKE (MW6.4) WHICH OCCURRED IN A SEISMIC GAP OFF THE EAST COAST OF AOMORI ON AUGUST 14, 2001 AND ITS ASSOCIATED CRUSTAL DEFORMATION
 Tamao SATO, Kazutoshi IMANISHI, Yaoyuki KATO, Takeshi SAGIYA

0830-094 JSS01/30A/D-048 Poster
 EARTHQUAKE SYSTEM: STRUCTURES AND SCALING
 Anshu JIN

0830-095 JSS01/30A/D-049 Poster
 REPEATED WATER INJECTION EXPERIMENTS AT THE NOJIMA FAULT: STUDY OF FAULT HEALING PROCESS AND INDUCED EARTHQUAKES
 Kin'ya NISHIGAMI, Research Group of Water Injection Experiment AT NOJIMA

0830-096 JSS01/30A/D-050 Poster
 HYDRAULIC PROPERTIES IN FRACTURE ZONE ESTIMATED USING STRAIN CHANGES DUE TO WATER INJECTION EXPERIMENTS
 Atsushi MUKAI, Kunio FUJIMORI

0830-097 JSS01/30A/D-051 Poster
 MONITORING OF THE TIME EVOLUTION OF PERMEABILITY OF AN ACTIVE FAULT AFTER A LARGE EARTHQUAKE OCCURRENCE BY AN ELECTROKINETIC METHOD
 Hideki MURAKAMI, Takeshi HASHIMOTO, Naoto OSHIMAN, Satoru YAMAGUCHI

0830-098 JSS01/30A/D-052 Poster
 PERMEABILITY STRUCTURE IN AND AROUND THE NOJIMA FAULT EVALUATED FROM VSP EXPERIMENT AND SONIC LOGGING
 Tsutomu KIGUCHI, Hisao ITO, Yasuto KUWAHARA

0830-099 JSS01/30A/D-053 Poster
 TEMPORAL CHANGE IN PERMEABILITY OF A FAULT BY REPEATED WATER INJECTION EXPERIMENTS IN ORDER TO MONITOR A HEALING PROCESS OF THE FAULT JUST AFTER A LARGE EARTHQUAKE OCCURRENCE
 Yuuichi KITAGAWA, Kunio FUJIMORI, Naoji KOIZUMI

0830-100 JSS01/30A/D-054 Poster
 HAS THE NOJIMA FAULT HEALED RAPIDLY? -RESULTS FROM SEISMOGENIC ZONE DRILLING AND MONITORING AT THE NOJIMA FAULT, JAPAN
 Hisao ITO, Evelyn ROELOFFS, Norio MATSUMOTO, Yasuto KUWAHARA

0830-101 JSS01/30A/D-055 Poster
 THE DECREASE IN THE WELL WATER PRECEDIND THE NANAKI EARTHQUAKE
 Yasuhiro UMEDA

0830-102 JSS01/30A/D-056 Poster
 PORE PRESSURE INFLATION ASSOCIATED WITH EARTHQUAKES OCCURRED IN REGIONAL DISTANCE RANGE MONITORED WITH ACROSS
 Ryoya IKUTA, Koshun YAMAOKA

0830-103 JSS01/30A/D-057 Poster
 SYMMETROPY, EARTHQUAKES AND SOC: A QUANTITATIVE MEASURE TO MONITOR ANISOTROPY AND ENTROPIC HETEROGENEITY
 Kazuyoshi NANJO, Hiroyuki NAGAHAMA , Eiji YODOGAWA

0830-104 JSS01/30A/D-058 Poster
 THE NONLINEARITY OF SEISMIC PROCESS AS RESULT OF STUDYING JMA, USGS AND SOME OTHER SEISMIC CATALOGUES
 Alexander I. MALYSHEV, Ivan N. TIKHONOV

0830-105 JSS01/30A/D-059 Poster
 USAGE OF FRACTAL MODEL OF POROUSE ROCK PHYSICAL PROPERTIES FOR RECOGNITION OF LIQUID-SATURATED PORE ZONES FROM COLLOCATED SEISMIC AND MAGNETOTELLURIC EXPERIMENTAL DATA
 Marina PERVUKHINA, Yasuto KUWAHARA, Hisao ITO

0830-106 JSS01/30A/D-060 Poster
 REPEATING RUPTURES OF ASPERITIES ALONG THE PLATE BOUNDARY EAST OFF NORTHEASTERN JAPAN
 Tomomi OKADA, Toru MATSUZAWA, Akira HASEGAWA

0830-107 JSS01/30A/D-061 Poster
 ON POSSIBILITY TO MANAGE THE STRESSED STATE OF THE MEDIUM
 Seymour I. KERIMOV, Oleg V. DOBRONRAVOV, Ikram G. KERIMOV

0830-108 JSS01/30A/D-062 Poster
 EXPERIMENTAL PREDICTION FOR SEISMIC ACTIVITY: CASE STUDIES IN THE IZU ISLANDS, JAPAN AND OTHERS
 Ken'ichiro YAMASHINA

0830-109 JSS01/30A/D-063 Poster
 SEISMICITY AND REMARKABLE ANOMALIES PRECEDING KUNLUNSHAN EARTHQUAKE (MS8.1), NORTHERN TIBETAN PLATEAU, CHINA
 Hong CHEN, Qing JIAO, Zhi-gang YI, Dong-ying LIU, Baoshu YAO, Rong-yu TANG

0830-110 JSS01/30A/D-064 Poster
 PROCESSES OF PREPARATION OF POWERFUL KAMCHATKA EARTHQUAKES BASED ON THE COMPLEX GEOPHYSICAL OBSERVATIONS DATA
 Galina N. KOPYLOVA, Yulia K. SERAFIMOVA

0830-111 JSS01/30A/D-065 Poster
 SIGNAL OF SYNCHRONIZATIONAND SYNCHRONIZATION SCENARIOS FOR EARTHQUAKE PREDICTION
 Alexey A. LYUBUSHIN

0830-112 JSS01/30A/D-066 Poster
 VARIATIONS OF THE HIGH-FREQUENCY SEISMIC NOISE AS INTERMEDIATE-TERM PRECURSOR OF STRONG EARTHQUAKES
 Vadim A. SALTYSKOV, Victor N. CHEBROV, Valery I. SINITSYN

0830-113 JSS01/30A/D-067 Poster
 DETECTING A SEISMIC PRECURSOR
 Pier Francesco BIAGI, Roberto PICCOLO, Antonio MINAFRA, Anita ERMINI, Oleg MOLCHANOV, Yuri KHATKEVICH, Evgueni GORDEEV

0830-114 JSS01/30A/D-068 Poster
 FAULT INTERACTION AND SHORT-TERM EARTHQUAKE FORECASTING: WHAT CAN BE LEARNED FROM THE LISBON 1755 EARTHQUAKE?
 Joao F.B.D. FONSECA, Catarina F. NUNES, Susana P. VILANOVA

0830-115 JSS01/30A/D-069 Poster
 DISTINGUISHING THE PRE-SEISMIC PHENOMENA FROM CONFUSING NOISE IN THE REGION OF FM FREQUENCY BAND
 Isao YAMAMOTO, Atsushi IYONO, Nobuaki OCHI, Takashi AZAKAMI

0830-116 JSS01/30A/D-070 Poster
 PROBABILISTIC CHARACTERIZATION OF THE NEXT EARTHQUAKE MAGNITUDE BY USING KULLBACK-LEIBLER ENTROPY
 Juan Luis GONZÁLEZ-WANDOSELL, Antonio Miguel POSADAS, Takayuki HIRATA

0830-117 JSS01/30A/D-071 Poster
 NEW MONITORING SYSTEM FOR RADON NUCLEAR SPECTROMETRY IN EXTREME CHEMICAL-PHYSICAL ENVIRONMENTAL CONDITIONS
 Wolfango PLASTINO

0830-118 JSS01/30A/D-072 Poster
 SUCESSFUL CASES FOR SHORT-TERM EARTHQUAKE PREDICTION: THE XIUYAN EARTHQUAKE (NOB.29, 1999, MS5.4)
 Li LI, Chen YONG

0830-119 JSS01/30A/D-073 Poster
 SIMULATION FOR SHORT-TERM EARTHQUAKE PREDICTION: A NET-LIKE VISCOELASTIC MODEL
 Li LI, Zhang GUOMIN

0830-120 JSS01/30A/D-074 Poster
 RECURRENT AND PRECURSORY PATTERNS IN THE TRANSCARPATHIAN, WEST UKRAINE, SEISMICITY
 Andrew R. GNYP, Taras Z. VERBYTSKY

0830-121 JSS01/30A/D-075 Poster
 GROUND DEFORMATION DURING PAPANDAYAN VOLCANO ERUPTION AS DETECTED BY GPS SURVEYS
 Hasanuddin Z. ABIDIN, M. GAMAL, H. ANDREAS, Irwan MEILANO, M. HENDRASTO, Iiing SOLIHIN, Z. KAIRUDDIN, D.S. PERMANA, O.K. SUGANDA, M.A. KUSUMA, M.A. PURBAWINATA, A.D. WIRAKUSUMAH, F. KIMATA

0830-122 JSS01/30A/D-076 Poster
 GROUND DEFORMATION OBSERVED AT KOZU - NIJIMA ISLANDS AFTER THE 2000 MIYAKE - KOZU DIKE INTRUSION EVENT
 Masayuki MURASE, Fumiaki KIMATA, Naoyuki FUJII

0830-123 JSS01/30A/D-077 Poster
 3-D VISUALIZATION OF VOLCANIC EARTHQUAKES AND ERUPTING VENTS IN TIME-SERIES ANIMATIONS
 Thomas L. WRIGHT

0830-124 JSS01/30A/D-078 Poster
 FORECASTING VOLCANIC ERUPTIONS FROM SEISMIC PRECURSORS
 Rosanna SMITH, Peter SAMMONDS, Christopher KILBURN

0830-125 JSS01/30A/D-079 Poster
 MAGMA-PLUMBING SYSTEM AND DOMING PROCESSES OF DACITE VOLCANO USU
 Hidefumi WATANABE

- 0830-126 JSS01/30A/D-080 Poster**
UNUSUAL SEISMIC NOISE MODULATIONS IN FOGO ISLAND, CAPE VERDE, AND POSSIBLE APPLICATIONS IN VOLCANIC MONITORING
Susana I.S. CUSTODIO, Bruno V. E. FARIA, Nicolas F. D'OREYE, Joao F.B.D. FONSECA
- 0830-127 JSS01/30A/D-081 Poster**
THE IMPACT OF SECULAR GRAVITY CHANGES TO PREDICT VOLCANIC ACTIVITIES
Carl GERSTENECKER, Ari SETIAWAN, Carola TIEDE, Gwendolyn LÄUFER
- 0830-128 JSS01/30A/D-082 Poster**
CRUSTAL DEFORMATION ASSOCIATED WITH THE 2000 ERUPTION OF USU VOLCANO, HOKKAIDO, JAPAN, AS OBSERVED BY A DENSE GPS ARRAY
Noritoshi OKAZAKI, Hiroaki TAKAHASHI, Shigeru NAKAO, Minoru KASAHARA
- 0830-129 JSS01/30A/D-083 Poster**
A STATISTICAL STUDY OF EXPLOSIVE VOLCANISM IN THE TROPICS: STOCHASTIC EVIDENCE OF AN UNDERLYING PHYSICAL PROCESS?
Caspar M. AMMANN, Philippe NAVEAU
- 0830-130 JSS01/30A/D-084 Poster**
COMPARING STRATEGIES OF SEISMIC AND VOLCANIC HAZARD ASSESSMENT AND MONITORING: LEARNING FROM EACH OTHER
Alexandru SZAKACS

JSV02 Monday, June 30 AM

VOLCANISM AND THE EARTH'S ATMOSPHERE (IAVCEI, IAMAS)

Location: Site A, Room 2

Convener: A. Robock
Co-Convener: S. Self
Presiding Chairs: A. Robock, S. Self

- 0855 JSV02/30A/A02-001 Invited**
ARCTIC OSCILLATION RESPONSE TO THE 1991 PINATUBO ERUPTION IN THE SKYHI GCM WITH A REALISTIC QUASI-BIENNIAL OSCILLATION
Georgiy L. STENCHIKOV, Kevin HAMILTON, Alan ROBOCK, V. RAMASWAMY, M. Daniel SCHWARZKOPF
- 0920 JSV02/30A/A02-002 Invited**
SURFACE CLIMATE RESPONSES TO EXPLOSIVE VOLCANIC ERUPTIONS IN LONG EUROPEAN TEMPERATURE RECORDS AND MID-TO-HIGH LATITUDE TREE-RING DENSITY AROUND THE NORTHERN HEMISPHERE
Philip D. JONES, Anders MOBERG, Timothy J. OSBORN, Keith R. BRIFFA
- 0945 JSV02/30A/A02-003 Invited**
COLD RAIN AND DRY FOGS: VOLCANIC INFLUENCES ON HUMAN HEALTH AND MORTALITY
John Patrick GRATTAN
- 1010 BREAK**
- 1040 JSV02/30A/A02-004**
THE POTENTIAL IMPACT OF THE CAMPANIAN IGNIMBRITE ERUPTION (~39 KY BP) ON CLIMATE AND EUROPEAN PALAEO-LITHIC ECOSYSTEMS
Francesco G. FEDELE, Biagio GIACCIO, Roberto ISAIA, Giovanni ORSI
- 1100 JSV02/30A/A02-005 Invited**
CLIMATE IMPACTS FROM EXPLOSIVE VOLCANISM DURING THE LATE MAUNDER MINIMUM, 1675-1704 AD: VOLCANIC PUNCHES FOR EUROPE?
Caspar M. AMMANN, Bette L. OTTO-BLIESNER
- 1125 JSV02/30A/A02-006 Invited**
SENSITIVITY OF ARCTIC OZONE LOSS TO TRACE GAS EMISSIONS FROM LARGE VOLCANIC ERUPTIONS
Azadeh TABAZADEH
- 1150 JSV02/30A/A02-007**
LONG DISTANCE TRANSPORT OF GLASS SHARDS FROM ETHIOPIAN TRAPS MEGAPLINIAN ERUPTION
Yannick TOUCHARD, Pierre ROCHETTE, Bruno HAMELIN, Annie MICHARD
- 1210 JSV02/30A/A02-008**
NUMERICAL SIMULATION OF TEPHRA FALL DEPOSITION FROM MT. USU 1977 ERUPTION AND MT. FUJI 1707 ERUPTION
Akira YAMAMOTO, Hidetaka SASAKI, Naoko SEINO, Masaru CHIBA

JSV03 Monday, June 30 AM

FLOOD BASALT VOLCANISM (IAVCEI, IASPEI)

Location: Site A, Room 1

Convener: M. Menzies
Co-Conveners: S. Holbrook, I. Campbell, S. Klemperer, S. Self
Presiding Chairs: M. Menzies, S. Holbrook

VOLCANIC RIFTED MARGINS & FLOOD BASALTS

- 0830 JSV03/30A/A01-001**
GEOPHYSICAL AND GEOLOGICAL EVIDENCE FOR THE ROLE OF MANTLE PLUMES IN THE NORTH ATLANTIC LIP
Hans Christian LARSEN, John R. HOPPER, Steve HOLBROOK, Michael STOREY
- 0900 JSV03/30A/A01-002**
LARGE IGNEOUS PROVINCES AND UPPER MANTLE HETEROGENEITY
Jun KORENAGA
- 0930 JSV03/30A/A01-003**
VOLCANIC RIFTED MARGINS - FLOOD BASALTS TO SEAWARD DIPPING REFLECTORS AND HIGH VELOCITY LOWER CRUST TO MID OCEAN RIDGE BASALTS
Martin Adrian MENZIES, Ingrid UKSTINS PEATE, Joel A. BAKER

- 0950 BREAK**
- 1030 JSV03/30A/A01-004**
TIMING OF LIP AND SDRS FORMATION ON THE NORTH ATLANTIC VOLCANIC MARGIN
Michael STOREY, Hans Christian LARSEN, Robert A. DUNCAN, Lotte M. LARSEN, Asger K. PEDERSEN
- 1100 JSV03/30A/A01-005**
FORMATION OF HIGH VELOCITY LOWER CRUST (HVLC) ON THE ATLANTIC VOLCANIC MARGINS
Stephan V. SOBOLEV, Robert B. TRUMBULL

- 1130 JSV03/30A/A01-006**
CRUSTAL ACCRETION BENEATH DECCAN VOLCANIC PROVINCE (INDIA)
Anand P. SINGH
- 1150 JSV03/30A/A01-007**
THE LATE PERMIAN EMEISHAN LARGE IGNEOUS PROVINCE IN SW CHINA: GEOCHEMICAL AND SEDIMENTARY EVIDENCE FOR A MANTLE PLUME MODEL
Yigang XU, Bin HE, Long XIAO, Hou-Jun MEI, Jifeng XU, Jinlong MA, Xiaolong HUANG
- 1210 JSV03/30A/A01-008**
SUBAQUEOUS ERUPTION OF THE PALAEO-PROTEROZOIC CHEELA SPRINGS FLOOD BASALT, ACCOMPANYING RIFTING AND RAPID SUBSIDENCE, ASHBURTON PROVINCE, PILBARA, WESTERN AUSTRALIA
Stefan G. MUELLER, Bryan KRAPEZ, Mark DOYLE, Mark BARLEY



GAI.11 Monday, June 30 AM

GEODYNAMO, THEORIES AND EXPERIMENTS (SEDI)

Location: Site A, Room 8

Convener: F.H. Busse
Co-Conveners: A. Kageyama, A. Chulliat
Presiding Chair: A. Chulliat

- 0830 GAI.11/30A/A08-001**
GEODYNAMO SIMULATIONS AT HIGHER RESOLUTION
Gary A. GLATZMAIER, Darcy E. OGDEN
- 0900 GAI.11/30A/A08-002**
DYNAMO SIMULATION BY EARTH SIMULATOR
Akira KAGEYAMA
- 0920 GAI.11/30A/A08-003**
NUMERICAL GEODYNAMO MODELS WITH ANISOTROPIC DIFFUSION
David John IVERS
- 0940 GAI.11/30A/A08-004**
MODELING THE EDDY DIFFUSIVITY IN THE EARTH'S CORE
Masaki MATSUSHIMA
- 1000 GAI.11/30A/A08-005**
CONTROL VOLUME METHOD FOR A CONVECTION-DRIVEN MAGNETOHYDRODYNAMIC DYNAMO IN A ROTATING SPHERICAL SHELL.
Pavel HEJDA, Maxim RESHETNYAK, Ivan CUPAL

- 1020 BREAK**
- 1040 GAI.11/30A/A08-006 Invited**
MAGNETIC FIELD STATISTICS OF DYNAMO MODELS WITH THERMAL CORE-MANTLE COUPLING
Ulrich R. CHRISTENSEN, Peter OLSON, Carsten KUTZNER
- 1110 GAI.11/30A/A08-007**
FLIP-FLOP BETWEEN STRONG AND WEAK FIELD STATES IN A NUMERICAL GEODYNAMO MODEL
Futoshi TAKAHASHI, Masaki MATSUSHIMA, Yoshimori HONKURA

0945 MI02/30A/B17-002
CLOUD MICROPHYSICS AND CLIMATE MODELS
George A. ISAAC, Ismail GULTEPE

1000 MI02/30A/B17-003
GLOBAL CLIMATE IS ACHIEVING A MAXIMUM ENTROPY PRODUCTION VIA CLOUD AND WATER VAPOR?
Biao WANG, Teruyuki NAKAJIMA

1015 MI02/30A/B17-004
CLOUD COVER PARAMETERIZATION FOR CLIMATE STUDIES USING IN-SITU MEASURED LIQUID/ICE WATER CONTENT AND RELATIVE HUMIDITY
Ismail GULTEPE, Ismail GULTEPE

1030 BREAK

1100 MI02/30A/B17-005
CLOUD MICROPHYSICS AND CLIMATE: ARE WE DEADLOCKED?
Wojciech W. GRABOWSKI

1115 MI02/30A/B17-006
PARAMETERIZATION OF THE STRATOCUMULUS CLOUD TOPPED BOUNDARY LAYER: EVALUATION OF THE ECHAM BOUNDARY LAYER SCHEME AGAINST LARGE-EDDY SIMULATIONS FROM EUROCS
Andreas CHLOND

1130 MI02/30A/B17-007
LIFE CYCLE OF NUMERICALLY SIMULATED SHALLOW CUMULUS CLOUDS
Ming ZHAO, Philip AUSTIN

1145 MI02/30A/B17-008
A REGIONAL ATMOSPHERIC MODEL STUDY OF MARINE BOUNDARY LAYER CLOUDS OVER THE SOUTHEAST PACIFIC OFF SOUTH AMERICA
Yueqing WANG, Shang-Ping XIE, Haiming XU, Bin WANG

1200 MI02/30A/B17-009
THE EFFECT OF PRECIPITATION ON VARIABILITY OF CONTINENTAL LOW STRATIFORM CLOUDS
Zena KOGAN, David B. MECHEM, Yefim L. KOGAN

1215 MI02/30A/B17-010
SMALL-SCALE TURBULENT MIXING IN CLOUDS
Szymon P. MALINOWSKI, Wojciech W. GRABOWSKI, Mirosław ANDREJCZUK, Piotr K. SMOLARKIEWICZ

MI10 Monday, June 30 AM

MODELING PRE-HOLOCENE CLIMATES (ICCI, IRC, ICACGP)

Location: Site C, Room 26
Conveners: W.R. Peltier, P. Valdes, M. Kageyama, K. Taylor, R.P. Humbert
Presiding Chairs: W.R. Peltier, M. Kageyama

0900 MI10/30A/C26-001
A NEW WAY TO QUANTIFY THE EFFECT OF A SUPERCONTINENT DISLOCATION ON THE ATMOSPHERIC CO₂ CONTENT: THE IMPLICATIONS FOR THE GLOBAL SCALE GLACIATIONS IN THE EARTH HISTORY.
Yannick DONNADIEU, Yves GODDERIS, Anne NEDELEC, Bernard DUPRE, Gilles RAMSTEIN, Joseph MEERT

0920 MI10/30A/C26-002
THE NEOPROTEROZOIC 'SNOWBALL EARTH': DYNAMIC SEA ICE OVER A QUIESCENT OCEAN
Jeffrey P. LEWIS, Andrew J. WEAVER, Stephen T. JOHNSTON, Michael EBY

0940 MI10/30A/C26-003
DEPENDENCY OF EQUILIBRIUM STATES OF GRAY ATMOSPHERE ON SOLAR CONSTANT: FROM THE RUNAWAY GREENHOUSE TO THE SNOWBALL STATES
Masaki ISHIWATARI, Kensuke NAKAJIMA, Shin-ichi TAKEHIRO, Yoshi-Yuki HAYASHI

1000 MI10/30A/C26-004
EFFECT OF OPENED ITHSMUS OF PANAMA AND INDONESIAN PASSAGE ON THE OCEANIC AND ATMOSPHERIC CIRCULATION
Yongqiang YU, Xuehong ZHANG

1020 BREAK

1040 MI10/30A/C26-005
CLIMATE CHANGES DUE TO THE OPENING OF THE DRAKE PASSAGE IN A COUPLED OCEAN-ATMOSPHERE MODEL
Tatsuo MOTOI, Wing-Le CHAN, Hyungmoh YIH

1100 MI10/30A/C26-006
ARE THE OCEAN DYNAMICS AND THE CHANGES IN HYDROLOGICAL CYCLE POSITIVE FEEDBACKS TO PRODUCE THE ONSET OF THE LAST ICE CYCLE 115KY BP ?
Myriam KHODRI, Gilles RAMSTEIN, Didier PAILLARD, Masa KAGEYAMA, Andrey GANOPOLSKI

1120 MI10/30A/C26-007
THE ROLE OF LAND-SURFACE DYNAMICS IN GLACIAL INCEPTION: A STUDY WITH THE UVIC EARTH SYSTEM MODEL
Katrin J. MEISSNER, Andrew J. WEAVER, H. Damon MATTHEWS, Peter M. COX

1140 MI10/30A/C26-008
MAGNETIC SUSCEPTIBILITY RECORDS FROM THE LOESS-PALAEOSOL PROFILES IN LOWER DANUBE BASIN AS PALAEOCLIMATE PROXIES
Cristian PANAIOTU, Diana JORDANOVA, Viktor HOFFMANN, Wolfgang ROESLER, Cristina PANAIOTU, Lyudmila VENEVA

MC07 Monday, June 30 AM

OBSERVATIONAL AND MODEL ESTIMATES OF CLIMATE SENSITIVITY (ICDM)
Location: Site C, Room 30

Conveners: M. Schlesinger, N. Andronova
Presiding Chair: C. Forest

0830 MC07/30A/C30-001
CLIMATE SENSITIVITY: UNCERTAINTIES AND LEARNING
Michael E. SCHLESINGER, Natalia G. ANDRONOVA

0915 MC07/30A/C30-002
ESTIMATION OF CLIMATE SENSITIVITY POSSIBILITY FROM EXPERT OPINION
Minh HA-DUONG

1000 MC07/30A/C30-003
THE INTRINSIC CLIMATE SENSITIVITY
Julian X.L. WANG

1030 BREAK

1045 MC07/30A/C30-004
AN OBSERVATIONALLY BASED ESTIMATE OF THE CLIMATE SENSITIVITY
Jonathan Michael GREGORY, Ronald J. STOUFFER, Sarah C.B. RAPER, Peter A. STOTT, Nick A. RAYNER

1130 MC07/30A/C30-005
DEPENDENCE OF CLIMATE SENSITIVITY ON VOLCANIC RADIATIVE FORCING UNCERTAINTIES
Natalia G. ANDRONOVA, Michael E. SCHLESINGER

1200 MC07/30A/C30-006
ON THE USE OF REGRESSION TO ESTIMATE CLIMATE SENSITIVITY
Michael E. SCHLESINGER, Natalia G. ANDRONOVA, Charles D. KOLSTAD

MC14 Monday, June 30 AM

DETECTING AND ATTRIBUTING THE EARLY SIGNS OF HUMAN INFLUENCES ON THE CLIMATE (ICCI)

Location: Site C, Room 28
Conveners: G. Hegerl, P. Stott
Presiding Chairs: N. Gillett, C. Amann

0900 MC14/30A/C28-001 Invited
ATTRIBUTION OF NEAR-SURFACE TEMPERATURE CHANGES
Peter A. STOTT, Gareth S. JONES, Myles R. ALLEN

0930 MC14/30A/C28-002
CLIMATE CHANGE SIMULATIONS ON THE 20TH CENTURY WITH NATURAL AND ANTHROPOGENIC FORCINGS
Toru NOZAWA, Tatsuya NAGASHIMA, Toshihiko TAKEMURA, Seita EMORI, Masahide KIMOTO

0950 MC14/30A/C28-003 Invited
CONTRIBUTIONS OF ANTHROPOGENIC AND NATURAL FORCING TO RECENT TROPOPAUSE HEIGHT CHANGES
B.D. SANTER, M.F. WEHNER, T.M.L. WIGLEY, R. SAUSEN, G.A. MEEHL, K.E. TAYLOR, C. AMMANN, J. ARBLASTER, W.M. WASHINGTON, J.S. BOYLE, W. BRUEGGEMANN

1020 MC14/30A/C28-004
RECENTLY OBSERVED TROPOSPHERIC TEMPERATURE TRENDS: A STRATOSPHERIC INFLUENCE?
Peter W. THORNE, David E. PARKER, Simon F.B. TETT

1040 BREAK

1100 MC14/30A/C28-005 Invited
THE END-TO-END ATTRIBUTION PROBLEM: FROM EMISSIONS TO IMPACTS
Daithi A. STONE, Myles R. ALLEN, Hugo F. LAMBERT, Peter A. STOTT

1130 MC14/30A/C28-006
DETECTABILITY OF ANTHROPOGENIC PRECIPITATION AND TEMPERATURE EXTREMES
Gabriele C. HEGERL, Francis ZWIERS, Peter STOTT, Slava KHARIN

1150 MC14/30A/C28-007
MONTE CARLO EXPERIMENTS ON THE DETECTION OF TRENDS IN
EXTREME VALUES
Xuebin ZHANG, Francis ZWIERS, Guilong LI

1210 MC14/30A/C28-008
SURFACE RADIATION MEASUREMENTS IN THE ALPS REVEAL THE
INCREASE OF THE GREENHOUSE EFFECT
Rolf PHILIPONA, Bruno DUERR, Christoph MARTY



P02 Monday, June 30 AM

MARGINAL AND SEMI-ENCLOSED SEAS AND THEIR EXCHANGE WITH THE OPEN OCEAN
Location: Site C, Room 25

Convener: J. Johnson
Co-Conveners: C. Mooers, M. Wakatsuchi, M. Astraldi
Presiding Chair: J. Johnson

0840 P02/30A/C25-001
JAPAN(EAST)SEA MODEL SKILL ASSESSMENT
Christopher N.K. MOOERS, Inkwon None BANG

0900 P02/30A/C25-002
REANALYSIS OF THE JAPAN SEA CIRCULATION USING APPROXIMATE
SMOOTHER
Naoki HIROSE

0920 P02/30A/C25-003
INTERMEDIATE WATER CIRCULATION IN THE SOUTHWESTERN
JAPAN/EAST SEA
Jae-Hun PARK, Douglas A. MITCHELL, Karen L. TRACEY, Kyung-II CHANG,
Moon-Sik SUK, D. Randolph WATTS

0940 P02/30A/C25-004
HYDROLOGICAL REGIME OF THE PETER-THE-GREAT BAY AND
PECULIARITIES OF THE WATERS VENTILATION IN THE SEA OF JAPAN
Gennady I. YURASOV, Lyudmila A. ORBOVA

1000 P02/30A/C25-005
OBSERVATIONS OF THE JAPAN/EAST SEA BOTTOM WATER VENTILATION
Vyacheslav B. LOBANOV, Vladimir I. PONOMAREV, Anatoly N. SALYUK, Lynne
D. TALLEY, Pavel Y. TISHCHENKO, Kuh KIM, Kyung-Ryul KIM, Dong-Jin
KANG, Guebuem KIM

1020 BREAK

1040 P02/30A/C25-006 Invited
NUMERICAL SIMULATION OF CURRENTS AND SURFACE HEAT AND
FRESHWATER FLUXES IN THE JAPAN SEA
Olga O. TRUSENKOVA, Vladimir I. PONOMAREV, Yuri B. RATNER, Sergey V.
STANICHNY, Natalia I. RUDYKH, Hajime ISHIDA

1110 P02/30A/C25-007
THE BAROTROPIC TIDE IN THE KOREA/TSUSHIMA STRAIT:
DATA ASSIMILATION MODELING AND ERROR ANALYSIS
Jeffrey W. BOOK, Pavel PISTEK, Henry PERKINS

1130 P02/30A/C25-008
DATA-ASSIMILATION MODELING OF TIDES IN THE ULLUENG BASIN OF THE
JAPAN/EAST SEA
Jeffrey W. BOOK, Mark WIMBUSH

1150 P02/30A/C25-009
INTERNAL TIDAL WAVES AND MIXING MODELLING IN THE JAPAN SEA
Sergey M. VARLAMOV, Jong-Hwan YOON, Vladimir A. LUCHIN

1210 P02/30A/C25-010
CLIMATIC VARIATION OF EXTERNAL FORCING, WATER STRUCTURE AND
CIRCULATION IN THE JAPAN SEA
Vladimir I. PONOMAREV, Alexander S. SALOMATIN, Dmitrii D. KAPLUNENKO,
Elena V. DMITRIEVA, Natalya I.RUDYKH

P03 Monday, June 30 AM

THE ROLE OF TIDES, MESOSCALE PROCESSES, AND BOTTOM TOPOGRAPHY IN ENERGY TRANSFER AND MIXING
Location: Site B, Room 19

Convener: E.G. Morozov
Co-Conveners: S.A. Thorpe, R.D. Muench
Presiding Chair: E. Morozov

0830 P03/30A/B19-001
SPACE-TIME SCALES OF INTERNAL WAVES, REVISITED
Robert I. PINKEL, Luc A. RAINVILLE

0900 P03/30A/B19-002 Invited
GLOBAL MAPPING OF DIAPYCNAL DIFFUSIVITY IN THE DEEP OCEAN USING
FINE-SCALE VERTICAL SHEAR MEASURED BY EXPENDABLE CURRENT
PROFILERS
Toshiyuki HIBIYA, Maki NAGASAWA, Yoshihiro NIWA, Michio WATANABE,
Naoki FURUICHI, Yujiro KITADE, Yuji KAWAMURA, Hans Van HAREN,
Hendrik Van AKEN

0930 P03/30A/B19-003 Invited
THE ROLE OF INTERNAL TIDES IN MIXING THE DEEP OCEAN
Louis C. ST. LAURENT, Chris GARRETT

1000 P03/30A/B19-004
DYNAMICS OF INTERNAL TIDES NEAR THE THERMOCLINE, AND'ABYSSAL'
IMPLICATIONS
Theo GERKEMA

1030 BREAK

1100 P03/30A/B19-005 Invited
INTERNAL TIDE SCATTERING AT THE LINE ISLANDS RIDGE
T. M. Shaun JOHNSTON, Mark A. MERRIFIELD, Peter E. HOLLOWAY

1130 P03/30A/B19-006 Invited
RELEASE OF BAROTROPIC TIDAL POTENTIAL ENERGY TO DIAPYCNAL
MIXING IN BENTHIC BOUNDARY LAYERS OVER SLOPES
Donald N. SLINN

1200 P03/30A/B19-007
TIDAL MIXING AND THE MAINTENANCE OF ABYSSAL STRATIFICATION:
TOMOGRAPHIC MEASUREMENTS OF THE TIDAL ENERGY BUDGET FOR THE
HAWAIIAN RIDGE
Peter F. WORCESTER, Brian D. DUSHAW, Matthew A. DZIECIUCH, Douglas S.
LUTHER

1220 P03/30A/B19-008
ATLANTIC WOCE SECTIONS AND A GLOBAL VIEW OF MIXING IN THE OCEAN
Eugene G. MOROZOV, Gregorio PARRILLA-BARRERA, Manuel G. VELARDE

P05 Monday, June 30 AM

THE PHYSICAL OCEANOGRAPHY OF THE INDIAN OCEAN
Location: Site B, Room 23

Convener: F. Schott
Co-Conveners: J. McCreary, J. Lutjeharms, S. Shetye
Presiding Chairs: F. Schott, J. Lutjeharms

0840 P05/30A/B23-001
FIFTEEN YEARS OF XBT MEASUREMENTS IN THE INDONESIAN
THROUGHFLOW
Susan Elizabeth WIJFFELS, Gary MEYERS

0910 P05/30A/B23-002
LOW-FREQUENCY VARIATIONS AND CLIMATE IMPACTS OF THE
INDONESIAN THROUGHFLOW
James Thomas POTEIRA, Niklas SCHNEIDER

0930 P05/30A/B23-003
REGULATION OF THE INDONESIAN THROUGHFLOW BY BAROCLINIC
DRAINING OF THE NORTH AUSTRALIAN BASIN
Anders STIGEBRANDT, Helen C. ANDERSSON

0950 P05/30A/B23-004
WHY DOES THE CROSS-EQUATORIAL FLOW IN THE INDIAN OCEAN EXTEND
SO DEEP?
J. Stuart GODFREY, Ru-Jin HU, Andreas SCHILLER, Russell FIEDLER

1010 P05/30A/B23-005
HIGH QUALITY CLIMATOLOGICAL DATASET FOR THE INDIAN OCEAN -
INDIAN HYDROBASE -
Taiyo KOBAYASHI, Toshio SUGA

1030 BREAK

1100 P05/30A/B23-006
OBSERVATIONS ON THE FLOW IN THE MOZAMBIQUE CHANNEL
Herman RIDDERINKHOF

1130 P05/30A/B23-007
VENTILATION AND MIXING OF INDIAN OCEAN BOTTOM WATERS
Rana A. FINE, William M. SMETHIE, John L. BULLISTER, Dong-Ha MIN, Mark J.
WARNER, Monika RHEIN, Alain POISSON, Ray F. WEISS

1150 P05/30A/B23-008
ON THE CIRCULATION OF WATER MASSES ACROSS THE MASCARENE
RIDGEIN THE WESTERN INDIAN OCEAN
Adrian L. NEW, David A. SMEED, Kate STANSFIELD, Steven ALDERSON

1210 P05/30A/B23-009
INTER-OCEAN FLUXES SOUTH OF AFRICA
Juliet Clair HERMES, C. J.C. REASON, J. R.E. LUTJEHARMS

WEEK
A
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AM



V06 **Monday, June 30 AM**

ORIGINS OF ARC MAGMA
Location: Site A, Room 5

Convenor: J. Davidson
Co-Conveners: R. Arculus, Y. Tatsumi
Presiding Chairs: R. Arculus, Y. Tatsumi

0830 V06/30A/A05-001
IDENTIFYING THE SOURCE INPUTS IN ARCS: A JAPAN-KURIL PERSPECTIVE
Richard John ARCULUS, Colleen BRYANT, Stephen EGGINS, Satoshi OKAMURA, Yury MARTYNOV

0900 V06/30A/A05-002
TERTIARY SILICIC VOLCANISM IN THE CENTRAL ANDEAN PLATEAU: AN INTEGRATED LOOK AT ARC MAGMATISM AND CRUSTAL MELTING
Robert B. TRUMBULL, Potsdam-Berlin ANDES RESEARCH GROUP

0920 V06/30A/A05-003
CONTRIBUTIONS OF SLAB FLUIDS, DEPLETED ASTHENOSPHERE, AND ENRICHED LITHOSPHERE TO THE ORIGIN OF QUATERNARY BASALT MAGMA IN THE NE-JAPAN ARC
Jun-Ichi KIMURA, Takeyoshi YOSHIDA, Shigeru IIZUMI

0940 V06/30A/A05-004
ASSESSING THE ROLE OF MANTLE AND CRUSTAL COMPONENTS IN THE GENESIS OF MAGMAS OF THE CAMPANIAN VOLCANIC REGION (ITALY).
Lucia CIVETTA, Massimo D'ANTONIO, William P. LEEMAN, Sonia TONARINI,

1000 V06/30A/A05-005
BORON GEOCHEMICAL CONSTRAINTS ON ARC MAGMAS
Sonia TONARINI, Lucia CIVETTA, Massimo D'ANTONIO, William P. LEEMAN

1020 BREAK

1040 V06/30A/A05-006
PETROLOGICAL CHARACTERISTICS OF PERIDOTITE XENOLITHS FROM ARCS: AN INSIGHT INTO WEDGE-MANTLE PROCESSES
Shoji ARAI, Yohei SHIMIZU, Satoko ISHIMARU, Natsue ABE

1100 V06/30A/A05-007
GEOCHEMICAL COMPOSITIONS AND MINERAL CHEMISTRIES OF PHILIPPINE PERIDOTITES: IMPLICATIONS FOR THE CHARACTER OF OCEANIC ARC MAGMA MANTLE SOURCES PRIOR TO SLAB-RELATED CHEMICAL INVASION
Rodolfo A. TAMAYO, Mireille POLVE, Graciano P. YUMUL, Rene C. MAURY, Joseph COTTEN, Marcel BOHN, Carla B. DIMALANTA, Francia O. OLAGUERA

1120 V06/30A/A05-008
NON-SLAB MELTING ORIGIN FOR THE CENTRAL LUZON (PHILIPPINES) ADAKITIC ROCKS: FLUID MOBILE ELEMENT AND ISOTOPIC CONSTRAINTS
Graciano P. YUMUL, JR., Pat CASTILLO, Teruaki ISHII, CarlaB. DIMALANTA, Rodolfo A. TAMAYO, JR., Herve BELLON, Jo COTTEN

1140 V06/30A/A05-009 Invited
THE ROLE OF DEHYDRATION AND MELTING OF THE SUBDUCTING SLAB IN THE EVOLUTION OF CRUST AND MANTLE
Yoshiyuki TATSUMI

1200 V06/30A/A05-010
DEHYDRATION VS. MELTING OF THE SUBDUCTING SLAB: TOWARDS A COMPREHENSIVE UNDERSTANDING OF MAJOR, TRACE, AND ISOTOPIC COMPOSITION OF HIGH-MG ANDESITES
Yoshiyuki TATSUMI, Takeshi HANYU

Monday, June 30 PM



JSA03 **Monday, June 30 PM**

EQUATORIAL MIDDLE ATMOSPHERE-THERMOSPHERE-IONOSPHERE DYNAMICS AND ENERGETICS (IAGA, IAMAS, SCOSTEP)
Location: Site A, Room 4

Presiding Chairs: R.A. Stening, J.M. Forbes

1400 JSA03/30P/A04-001
NONMIGRATING TIDES IN THE LOWER AND MIDDLE THERMOSPHERE OF THE EQUATORIAL REGION
Jeffrey Michael FORBES, S. MIYAHARA, M. YOSHIKAWA, M.E. HAGAN

1425 JSA03/30P/A04-002
OPTICAL DIAGNOSTICS OF THE EQUATORIAL ATMOSPHERE WAVE ACTIVITIES
Hisao TAKAHASHI, Delano GOBBI, Amauri A. MEDEIROS, Ricardo A. BURITI, Jose H.A. SOBRAL

1450 JSA03/30P/A04-003
EQUATORIAL GRAVITY WAVE MEASUREMENTS OVER CHRISTMAS ISLAND, (2 N)
Michael J. TAYLOR, C.L. OLSEN, R.A. VINCENT, A.F. MEDEIROS

1515 JSA03/30P/A04-004
INVESTIGATION OF TIDAL AND GRAVITY WAVE SIGNATURES IN MESOSPHERIC OH AND O₂ ROTATIONAL TEMPERATURES AND INTENSITIES AT LOW - LATITUDES
Alok K. TAORI, M.J. TAYLOR, Y. ZHAO, X. CHU

1535 JSA03/30P/A04-005
OCCURRENCE OF MESOSPHERIC TEMPERATURE INVERSION OVER THE INDIAN TROPICAL REGION
Suvama S. FADNAVIS, Gufran BEIG

1555 BREAK

1615 JSA03/30P/A04-006
MLT TIDES AND EQUIVALENT CURRENT SYSTEMS IN THE IONOSPHERE: A CASE STUDY FROM GROUND OBSERVATIONS
S. GURUBARAN, R. RAJARAM, R.A. VINCENT

1640 JSA03/30P/A04-007
THE RELATION BETWEEN THE DAYTIME IONOSPHERIC ELECTRIC FIELDS ASSOCIATED WITH THE EQUATORIAL ELECTROJET AND MAGNETIC FIELD MEASUREMENTS ON THE GROUND BENEATH THE ELECTROJET
Robert John STENING, David ANDERSON

1700 JSA03/30P/A04-008
ATMOSPHERIC WAVES CONTRIBUTIONS TO LONG PERIOD (~ 2-20 DAYS) OSCILLATIONS IN THE EQUATORIAL IONOSPHERIC PARAMETERS
Ramkumar Krishnamoorthy THOKULUWA, Gurubaran SUBRAMANIAN, Sastri J. HANUMATH, Rajaram RAMASWAMY

1720 JSA03/30P/A04-009
IMPACT OF LOWER ATMOSPHERE FORCING ON ELECTRODYNAMIC VARIABILITY IN THE EQUATORIAL IONOSPHERE AND THERMOSPHERE
Naomi MARUYAMA, Tim FULLER-ROWELL, Mihail CODRESCU, Art RICHMOND, Rolando GARCIA, George MILLWARD

1740 JSA03/30P/A04-010
ION DRAG EFFECT ON EQUATORIAL IONOSPHERE-THERMOSPHERE COUPLING
Shigeto WATANABE, Naomi MARUYAMA

JSA10 **Monday, June 30 PM**

ELECTROMAGNETIC IMAGING AND MONITORING OF VOLCANOES AND ACTIVE FAULTS (IAGA, IASPEI, IAVCEI)
Location: Site A, Room 10

Presiding Chair: V. Spichak

1400 JSA10/30P/A10-001
RELATIONSHIP BETWEEN EM RADIATION AND TECTONIC ACTIVITIES IN CENTRAL JAPAN
Masayasu HATA, Ichi TAKUMI, Hiroshi YASUKAWA, Seiji YABASHI

1420 JSA10/30P/A10-002
A DISCUSSION OF THERMAL PROCESS AROUND STRONG EARTHQUAKES BY USING SATELLITE INFRARED IMAGES
Jin MA, Xinjian SHAN, Liqiang LIU, Weiying GUO

1440 JSA10/30P/A10-003
ROBUST TIR SATELLITE TECHNIQUES FOR SEISMICALLY ACTIVE AREAS MONITORING.
Valerio TRAMUTOLI, Carla PIETRAPERTOSA, Nicola PERGOLA, Carolina FILIZZOLA, Rosita CORRADO

1500 JSA10/30P/A10-004
MULTI-TEMPORAL AVHRR RECORDS ANALYSIS FOR VOLCANIC ACTIVITY MONITORING
Nicola PERGOLA, Francesco MARCHESE, Valerio TRAMUTOLI, Carla PIETRAPERTOSA

JSA10-Posters Monday, June 30 PM

ELECTROMAGNETIC IMAGING AND MONITORING OF VOLCANOES AND ACTIVE FAULTS (IAGA, IASPEI, IAVCEI)

Location: Site D

- 1600-001 JSA10/30P/D-001 Poster**
EM IMAGING TALAS-FERGANA FAULT ZONE AND ADJACENT TERRITORY DEEP STRUCTURE ACCORDING MT-DATA
Vladislav Yu. BATALEV
- 1600-002 JSA10/30P/D-002 Poster**
ELECTROMAGNETIC IMAGING OF FAULTS IN THE BAIKAL RIFT ZONE
Darima Garmaevna BUYANOVA, Yuri Buddich BASHKUEV, Valery Bazheevich KHAPTANOV, Mikhail Georgievich DEMBELOV, Vladimir Anatol'evich SAN'KOV, Andrey Vladimirovich LUKHNEV
- 1600-003 JSA10/30P/D-003 Poster**
MAGNETOTELLURIC OBSERVATION IN THE SOUTHERN PART OF BOSO PENINSULA, JAPAN : A PRELIMINARY RESULT
Katsumi HATTORI, RIKEN - Chiba University Boso MT Research Group
- 1600-004 JSA10/30P/D-004 Poster**
RESISTIVITY STRUCTURE AROUND THE EARTHQUAKE SWARM AREA OF THE NORTHERN HYOGO PREFECTURE
Takafumi KASAYA, Naoto OSHIMAN, Ichiro SHIOZAKI
- 1600-005 JSA10/30P/D-005 Poster**
DEEP CRUSTAL RESISTIVITY STRUCTURE IN AND AROUND THE FOCAL AREA OF THE 2000 TOTTORI-KEN SEIBU EARTHQUAKE, JAPAN
Naoto OSHIMAN, Koki AIZAWA, Ichiro SHIOZAKI
- 1600-006 JSA10/30P/D-006 Poster**
DEEP CRUSTAL RESISTIVITY STRUCTURE DERIVED FROM THE WIDE BAND MT INVESTIGATIONS IN THE EASTERN PART OF SANIN REGION, SOUTHWESTERN HONSHU, JAPAN
Ichiro SHIOZAKI, Naoto OSHIMAN, Takafumi KASAYA, Tomofumi UTO, Tsuneomi KAGIYAMA
- 1600-007 JSA10/30P/D-007 Poster**
AN HIGH RESOLUTION ELECTRICAL AND ELECTROMAGNETIC SURVEY OF A SEISMOGENIC FAULT SYSTEM IN THE UMBRIA-MARCHE REGION (CENTRAL ITALY)
Ida DIAFERIA, Roberto BASILI, Mariano LODDO, Domenico SCHIAVONE, Agata SINISCALCHI
- 1600-008 JSA10/30P/D-008 Poster**
TECTONOMAGNETIC INVESTIGATIONS FOR STUDY ACTIVE FAULTS IN THE REGION OF ANTARCTIC STATION ACADEMIC VERNADSKY
Ihor CHOBOTOK, Valentyn MAKSYMCHUK, Valentyna KUZNETSOVA, Ihor DOTSENKO
- 1600-009 JSA10/30P/D-009 Poster**
THREE-DIMENSIONAL CONDUCTIVITY STRUCTURE BENEATH MIYAKE-JIMA VOLCANO BEFORE THE 2000 ERUPTION
Weerachai SIRIPUNVARAPORN, Makoto UYESHIMA, Yoichi SASAI
- 1600-010 JSA10/30P/D-010 Poster**
MT SURVEY ON HOKKAIDO KOMAGATAKE VOLCANO, JAPAN
Yusuke YAMAYA, Kengo TANIMOTO, Yasunori NISHIDA, Toru MOGI, Masakazu MIYAHARA, Kunikazu YOSHIDA, Mizue SABA, Nagendara Pratap SINGH, Kosuke TAKAHASHI, Masayuki SHINYA, Kotaro KIKUCHI
- 1600-011 JSA10/30P/D-011 Poster**
RESISTIVITY STRUCTURE IMAGED BY MAGNETOTELLURICS METHOD UNDER KUSATSU-SHIRANE VOLCANO, GUNMA, JAPAN
S.Bulent TANK, Yasuo OGAWA, Yoshimori HONKURA, Masaki MATSUSHIMA, Takehiko MORI, Jun-ichi HIRABAYASHI
- 1600-012 JSA10/30P/D-012 Poster**
MAGNETOTELLURIC OBSERVATIONS IN THE REGION OF ELBRUS VOLCANO (NORTHERN CAUCASUS)
Denis V. YAKOVLEV, Valeriy N. ARBUZKIN, Evgeniy A. TROFIMENKO, Mikhail A. KOMPANIETS, Elena V. ANDREEVA, Andrey G. YAKOVLEV, Anna G. MOROZOVA
- 1600-013 JSA10/30P/D-013 Poster**
RESISTIVITY STRUCTURE AROUND IWATE VOLCANO, NORTHEASTERN JAPAN
Kosuke TAKAHASHI, Masa-aki MISHINA, Hiroyuki HAMAGUCHI, Toru MOGI
- 1600-014 JSA10/30P/D-014 Poster**
ELECTROMAGNETIC RESISTIVITY STRUCTURE MONITORING IN THE REGION OF ACTIVE VOLCANO IN IZU-OSHIMA ISLAND, CENTRAL JAPAN
Yuji TAKAHASHI, Tsuneomi KAGIYAMA, Hisashi UTADA
- 1600-015 JSA10/30P/D-015 Poster**
TELLURIC TENSOR FOR A SEARCH OF THE STRONG EARTHQUAKE PRECURSORS
Yuri F. MOROZ, Tamara A. MOROZ

- 1600-016 JSA10/30P/D-016 Poster**
IDENTIFICATION OF POTENTIAL SOURCES IN VOLCANO-ELECTRIC EFFECT BY COMPLEX WAVELET ANALYSIS AND DIPOLAR PROBABILITY APPROACH ON PITON DE LA FOURNAISE VOLCANO.
Ginette SARACCO, Philippe LABAZUY, Frederique MOREAU
- 1600-017 JSA10/30P/D-017 Poster**
THE ELECTROMAGNETIC ANOMALIES SOURCE MODEL STIPULATED BY SEISMIC PROCESS IN MAGNETO ACTIVE MATERIALS.
Olga V. SHEREMETYEVA, Alexander N. KROLEVETS
- 1600-018 JSA10/30P/D-018 Poster**
JOINT FORWARD AND INVERSION OF ELASTIC AND ELECTRIC ANISOTROPY
Qinghe LI, Aiguo RUAN, Xiaoping FAN, Yuansheng ZHANG, Changyou LIN, Sumei JIN
- 1600-019 JSA10/30P/D-019 Poster**
A CHANGE OF THE DIRECTION OF THE INDUCTION VECTORS IN RELATION TO THE SEIMICITY OF MONTENEGRO COAST
Nenad SMILJANIC
- 1600-020 JSA10/30P/D-020 Poster**
GEOELECTRIC STUDY USING THE SIGNALS OF LEAK CURRENT FROM A RAILROAD
Toshiya TANBO, Hideo SAKAI, Toshiyasu NAGAO
- 1600-021 JSA10/30P/D-021 Poster**
HOW CAN AUDIO MAGNETOTELLURICS CONTRIBUTE TO THE EM IMAGING OF A VOLCANIC ISLAND SYSTEM?
Mihai G. ROHARIK, Jacques ZLOTNICKI

JSM01 Monday, June 30 PM

TOWARD HIGH RESOLUTION CLIMATE MODELS AND EARTH SYSTEM MODELS (IAMAS, IAPSO)

Co-Sponsored by the Center for Climate System Research, University of Tokyo

Location: Site B, Room 18

Presiding Chair: R. Mechoso

- 1400 JSM01/30P/B18-001**
DEVELOPMENT OF NHM ON THE EARTH SIMULATOR
Kouhei ARANAMI, Junichi ISHIDA, Chiashi MUROI, Shugo HAYASHI, Kazuo SAITO
- 1415 JSM01/30P/B18-002**
HIGH RESOLUTION REGIONAL ATMOSPHERIC SIMULATION OF NON-HYDROSTATIC MODEL ON THE EARTH SIMULATOR
Chiashi MUROI, Shugo HAYASHI, Hisaki EITO, Teruyuki KATO, Kohei ARANAMI, Jun-ichi ISHIDA, Masanori YOSHIZAKI, Takayo MATSUO
- 1430 JSM01/30P/B18-003**
A CLOUD STUDY PROCEDURE USING A NONHYDROSTATIC MULTI-NESTED REGIONAL MODEL
Toshiki IWASAKI, Ryoji NAGASAWA, Yoshihito TAKAHASHI, Shoji ASANO, Hajime OKAMOTO, Kazuo SAITO
- 1445 JSM01/30P/B18-004**
HIGH-RESOLUTION COUPLED OCEAN-ATMOSPHERE GENERAL CIRCULATION MODELING ON THE EARTH SIMULATOR
Masahide KIMOTO, Seita EMORI, Hiroyasu HASUMI, Tatsuo SUZUKI, Teruyuki NISHIMURA, Takahiro INOUE, Fuyuki SAITO, Tomoo OGURA, Ayako ABE-OUCHI, Hiroshi KANZAWA, Akimasa SUMI
- 1500 JSM01/30P/B18-005**
DEVELOPMENT OF CLIMATE MODEL AT METEOROLOGICAL RESEARCH INSTITUTE
Isamu YAGAI
- 1515 JSM01/30P/B18-006**
HIGH RESOLUTION SIMULATIONS OF GLOBAL CLIMATE
Philip DUFFY, Bala GOVINDASAMY, Karl TAYLOR, John IORIO, Jeremy COQUARD

1530 BREAK

- 1600 JSM01/30P/B18-007**
A COUPLED OCEAN-ATMOSPHERE GENERAL CIRCULATION MODEL FOR LONG-TERM INTEGRATIONS ON THE EARTH SIMULATOR
Tomoo OGURA, Masahide KIMOTO, Hiroyasu HASUMI, Rumi OHGAITO, Tomonori SEGAWA, Ayako ABE-OUCHI, Seita EMORI, Masahiro WATANABE, Fuyuki SAITO, Hiroshi KANZAWA, Akimasa SUMI
- 1615 JSM01/30P/B18-008**
HIGH-RESOLUTION LAND SURFACE PROCESS AND SOIL MOISTURE-PRECIPIATION INTERACTION IN REGIONAL CLIMATE SIMULATION OF THE EAST ASIAN SUMMER MONSOON
Dong-Kyou LEE, Hyun-Suk KANG

WEEK
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1630 JSM01/30P/B18-009
COUPLED ATMOSPHERE-OCEAN-SEA ICE MODEL FOR THE EARTH SIMULATOR (CFES): MODEL DESCRIPTION, SPINUP AND VALIDATION
Keiko TAKAHASHI, Nobumasa KOMORI, Wataru OHFUCHI, Kenji KOMINE, Yoshio KURIHARA, Hisashi NAKAMURA, Hirofumi SAKUMA, Tetsuya SATO

1645 JSM01/30P/B18-010
HADCEM - AN EDDY-PERMITTING GLOBAL COUPLED MODEL
Malcolm J. ROBERTS, Richard A. WOOD

JSM01-Posters Monday, June 30 PM

TOWARD HIGH RESOLUTION CLIMATE MODELS AND EARTH SYSTEM MODELS (IAMAS, IAPSO)
Co-Sponsored by the Center for Climate System Research, University of Tokyo
Location: Site D

1445-022 JSM01/30P/D-001 Poster
EFFECTS OF POLAR ICE SHEETS ON GLOBAL SEA LEVEL IN HIGH-RESOLUTION GREENHOUSE SCENARIOS
Martin WILD, Pierluigi CALANCA, Simon SCHERRER, Atsumu OHMURA

JSM08 Monday, June 30 PM

ENERGETICS AND CIRCULATION OF THE MLT REGION AND ITS COUPLING WITH CIRCULATION AND CHEMISTRY OF THE THERMOSPHERE AND STRATOSPHERE (IAMAS [ICMA, ICACGP], IAGA)
Location: Site C, Room 31

Convener: W. Ward
Co-Conveners: V. Fomichev, T. Nakamura, A. Pogoreltsev
Presiding Chair: V. Fomichev

1430 JSM08/30P/C31-001 Invited
RESIDUAL MEAN CIRCULATION IN THE MLT REGION SIMULATED BY A GENERAL CIRCULATION MODEL
Minoru YOSHIKAWA, Shingo WATANABE, Saburo MIYAHARA

1505 JSM08/30P/C31-002
THE DISTRIBUTION OF CO₂ AND ITS INFLUENCE ON THE ENERGY BUDGET IN THE MESOSPHERE/LOWER THERMOSPHERE: SIMULATIONS WITH HAMMONIA
Hauke SCHMIDT, Elisa MANZINI, Guy P. BRASSEUR, Martin CHARRON, Marco GIORGETTA

1525 BREAK

1550 JSM08/30P/C31-003 Invited
GLOBAL DISTRIBUTIONS OF TEMPERATURE IN MESOSPHERE AND LOWER THERMOSPHERE (CRISTA-1 EXPERIMENT)
Vladimir S. KOSTSOV, Yuri M. TIMOFEYEV

1625 JSM08/30P/C31-004
MESOSPHERIC CARBON DIOXIDE AND OZONEDISTRIBUTIONS AND THE VIBRATIONALTEMPERATURES OF THE LOWER STATES OF CO₂AND O₃ MOLECULES (CRISTA-1 EXPERIMENT)
Vladimir S. KOSTSOV, Yuri M. TIMOFEYEV, Rada O. MANUILOVA

1645 JSM08/30P/C31-005
CHEMICAL HEATING AND SOLAR HEATING IN THE MESOSPHERE AND LOWER THERMOSPHERE
Marty G. MLYNCZAK, William WARD

JSM09 Monday, June 30 PM

INTENSE VORTICES FROM THE SMALL SCALE TO THE PLANETARY SCALE (IAMAS [ICDM], IAPSO)
Location: Site C, Room 29

Presiding Chair: H.B. Bluestein

TROPICAL CYCLONE VORTEX DYNAMICS

1400 JSM09/30P/C29-001
THE ROLE OF CONVECTION AND BUOYANCY IN HURRICANE
Roger K. SMITH

1430 JSM09/30P/C29-002
RECENT RESULTS IN TROPICAL CYCLONE VORTEX DYNAMICS
Michael Thomas MONTGOMERY

1500 JSM09/30P/C29-003
AN ADIABATIC THEORY FOR THE RESILIENCY OF TROPICAL CYCLONES IN VERTICAL SHEAR FLOW
Paul D. REASOR, Michael T. MONTGOMERY, Lewis D. GRASSO

1530 JSM09/30P/C29-004
ON THE ROLE OF VORTICAL HOT TOWERS IN THE FORMATION OF HURRICANE DIANA (1984): INSIGHTS USING CLOUD RESOLVING NUMERICAL SIMULATIONS
Eric Anthony HENDRICKS, Michael T. MONTGOMERY, Christopher A. DAVIS

1550 DISCUSSION

1600 BREAK

1620 JSM09/30P/C29-005
INNER SPIRAL BANDS IN A SIMULATED HURRICANE
Peter M.K. YAU, Yongsheng CHEN, Gilbert BRUNET

1650 JSM09/30P/C29-006
HIGH RESOLUTION SIMULATIONS AND WAVE ACTIVITY DIAGNOSTICS OF HURRICANES
Gilbert Joseph BRUNET, Chen YONGSHENG, Desgagne MICHEL, Martinez Hector YOSVANY, Montgomery T. MICHAEL, Yau PETER

1720 JSM09/30P/C29-007
EFFECT OF INTERNALLY GENERATED ASYMMETRIC STRUCTURE ON THE INTENSITY OF TROPICAL CYCLONES
Yuqing WANG, Bin WANG, Bo YANG

JSM13-Posters Monday, June 30 PM

DATA ASSIMILATION FOR ATMOSPHERIC AND OCEANIC PROCESSES (IAMAS [ICDM, ICCP], IAHS, IAPSO, IAGA, IAG, SPARC)
Location: Site D

Conveners: R. Swinbank, P. Bauer, W. Lahoz, G. Ohring, K. Tsuboki, O.B. Andersen, T. Sasaki, K. Haines

1400-023 JSM13/30P/D-001 Poster
CURRENT STATUS OF THE DIRECT ASSIMILATION OF ATOVS RADIANCES AT JMA
Masahiro KAZUMORI, Kozo OKAMOTO, Hiromi OWADA

1400-024 JSM13/30P/D-002 Poster
RADIATIVE TRANSFER ISSUES FOR SATELLITE DATA ASSIMILATION
Thomas Joseph KLEESPIES

1400-025 JSM13/30P/D-003 Poster
THE COMPUTATIONAL COVARIANCE MODELING FRAMEWORK FOR THE PHYSICAL-SPACE STATISTICAL ANALYSIS SYSTEM
Jing GUO, Lang-Ping CHANG, Lars Peter RIISHOJGAARD, Steve E. COHN

1400-026 JSM13/30P/D-004 Poster
A SCHEME FOR OBJECTIVE ANALYSIS TO TREAT THE PROBLEM OF HIGH GRADIENT WITHIN CURVED FLOW
Nabil Rezk MANSOUR

1400-027 JSM13/30P/D-005 Poster
APPLICATION OF NONLINEAR PRECONDITIONED DESCENT METHODS WITHOUT INVERSION OF A FIRST-GUESS COVARIANCE MATRIX IN VARIATIONAL ANALYSES
Yosuke FUJII, Masafumi KAMACHI

1400-028 JSM13/30P/D-006 Poster
EXPLOITING THE LOCAL LOW DIMENSIONALITY OF THE ATMOSPHERE TOIMPROVE WEATHER FORECASTS
D.J.Patil PATIL, Istvan SZUNYOGH, Aleksey V. ZIMIN, Brian R. HUNT, Edward OTT, Eugenia KALNAY, James A. YORKE

1400-029 JSM13/30P/D-007 Poster
ASSIMILATION OF METEOROLOGICAL DATA FROM MICROWAVE SENSORS IN THE NCMRWF GLOBAL DATA ASSIMILATION SYSTEM
Sarat Chandra KAR, Shyam Vir SINGH

1400-030 JSM13/30P/D-008 Poster
APPLICATION OF CLUSTERED SYSTEMS TO NUMERICAL WEATHER PREDICTION MODELS
Sohaila JAVANMARD, Javad BODAGHJAMALI, AliMohamad NOORIAN, Abbas CHEZGI

1400-031 JSM13/30P/D-009 Poster
DEVELOPMENT OF DETERMINISTIC PREDICTION IN NONLINEAR DYNAMICAL SYSTEM USING FORECAST ASSIMILATION
Daisuke NOHARA, Hiroshi L. TANAKA

1400-032 JSM13/30P/D-010 Poster
DATA ASSIMILATION FOR CONVECTIVE-SCALE NWP
Ian ROULSTONE

1400-033 JSM13/30P/D-011 Poster
UTILIZATION OF MESOSCALE NUMERICAL WEATHER PREDICTION SYSTEMS OVER I. R. OF IRAN
Javad BODAGHJAMALI, Sohaila JAVANMARD, Abbas CHEZGI

1400-034 JSM13/30P/D-012 Poster
DIAGNOSTIC STUDY OF MEIYU/BAIU WINDS, TEMPERATURE AND VERTICAL STRUCTURE OF PRECIPITATING CLOUDS USING WIND PROFILER
Krishna REDDY, Biao GENG, Hiroyuki YAMADA, Hiroshi UYEDA

1400-035 JSM13/30P/D-013 Poster
DOWNSCALING OF SATELLITE-BASED MEASUREMENTS FOR RETRIEVAL OF LAND SURFACE VARIABLES: DEVELOPMENT OF A FOUR-DIMENSIONAL VARIATIONAL DATA ASSIMILATION MODEL AND ITS APPLICATION
Pathmathevan MAHADEVAN, Toshio KOIKE, Xin LI

1400-036 JSM13/30P/D-014 Poster
NEUTRAL ATMOSPHERIC DENSITY ESTIMATION USING RIDGE-TYPE ESTIMATION METHODS
Clifton Freeman MINTER, Tim J. FULLER-ROWELL

1400-037 JSM13/30P/D-015 Poster
MEDIUM-RANGE PREDICTABILITY OF OZONE FIELDS IN THE STRATOSPHERE USING A GLOBAL THREE-DIMENSIONAL CHEMICAL TRANSPORT MODEL WITH ASSIMILATION OF METEOROLOGICAL DATASETS AND SATELLITE MEASUREMENTS
Tsuyoshi Thomas SEKIYAMA, Kiyotaka SHIBATA, Kohtaro ORITO, Toru SASAKI

1400-038 JSM13/30P/D-016 Poster
TOWARDS INTERACTIVE THREE-DIMENSIONAL CHEMICAL DATA ASSIMILATION
Boris KHATTATOV, Michael MURPHY, Andrew KNYAZEY

1400-039 JSM13/30P/D-017 Poster
ESTIMATION OF CHEMICAL SOURCES USING VARIATIONAL DATA ASSIMILATION: THE PROBLEMS RELATED TO NONOSCILLATORY ADVECTION SCHEMES
Manuel PULIDO, John THUBURN

1400-040 JSM13/30P/D-018 Poster
FLOW DECOMPOSITION FOR VELOCITY DATA ASSIMILATION
Peter C. CHU, Leonid M. IVANOV, Tatiana M. MARGOLINA, Oleg V. MELNICHENKO

1400-041 JSM13/30P/D-019 Poster
ENSEMBLES FOR LONG-TERM EARTH SYSTEM MODELLING
James ANNAN, Julia HARGREAVES

1400-042 JSM13/30P/D-020 Poster
MAINTAINANCE OF AN EFFICIENT SCALABLE EXACT ADJOINT FOR OCEAN STATE ESTIMATION IN THE ONGOING DEVELOPMENT OF THE MIT GENERAL CIRCULATION MODEL.
Patrick S. HEIMBACH, Chris HILL, Ralf GIERING

1400-043 JSM13/30P/D-021 Poster
A STUDY OF UPPER-OCEAN CIRCULATION AND TEMPERATURE FIELDS IN THE SOUTH CHINA SEA USING MULTI-SOURCE SATELLITE REMOTE SENSING DATA ASSIMILATION
Wei ZHAO, Jiwei TIAN, Shuyi S. CHEN

1400-044 JSM13/30P/D-022 Poster
THE 4-D SUMMER CIRCULATION IN THE BARENTS SEA DERIVED AS A VARIATIONAL INVERSE OF THE CLIMATOLOGICAL DATA.
Gleb PANTELEEV, Dmitri NECHAEV, Motoyoshi IKEDA

1400-045 JSM13/30P/D-023 Poster
FORECASTING SKILL ASSESSMENT OF A DOUBLY, TWO-WAY NESTED MODEL OF THE LIGURIAN SEA DRIVEN BY ASSIMILATION OF SEASURFACE TEMPERATURE.
Alexander BARTH, Aida ALVERA-AZCARATE, Michel RIXEN, Jean-Marie BECKERS, Charles-Emmanuel TESTUT, Jean-Michel BRANKART, Pierre BRASSEUR

1400-046 JSM13/30P/D-024 Poster
INVERSION OF GLOBAL BALANCE EQUATION WITH SPECTRAL METHOD USING THE SPHERICAL HARMONICS AND DOUBLE FOURIER SERIES
Young Chul SONG, Hyeong Bin CHEONG, Myeong Joo LEE, In Hyuk KWON

JSM18 Monday, June 30 PM
MEASUREMENT AND DISTRIBUTION OF PRECIPITATION (IAMAS [ICCP, IPCM], IAHS)
Location: Site B, Room 20

Presiding Chair: E. Zipser

1400 JSM18/30P/B20-001 Invited
REQUIREMENT OF RAINFALL MEASUREMENT BY THE MODELING COMMUNITY
Akimasa SUMI

1430 JSM18/30P/B20-002 Invited
PRECIPITATION ESTIMATION AND VALIDATION FOR GPM: MESOSCALE ISSUES
Steven A. RUTLEDGE

1500 JSM18/30P/B20-003 Invited
ESTIMATES OF RANDOM ERROR IN SATELLITE RAINFALL AVERAGES
Thomas L. BELL, Prasun K. KUNDU

1530 BREAK
Presiding Chair: T. Iguchi

1545 JSM18/30P/B20-004
PRECIPITATION-SYSTEM STRUCTURE DEPICTED FROM VERTICAL GRADIENT OF RAINFALL RATE OBSERVED BY TRMM PRECIPITATION RADAR
Masafumi HIROSE, Kenji NAKAMURA

1600 JSM18/30P/B20-005
VERTICAL DISTRIBUTION OF RAIN DROP SIZE DISTRIBUTIONS DURING CONVECTIVE AND STRATIFORM RAIN
Christopher R. WILLIAMS, Kenneth S. GAGE

1615 JSM18/30P/B20-006
METHODOLOGY AND OBSERVATIONAL STRATEGY FOR REDUCING UNCERTAINTIES IN RAIN RATE ESTIMATES FROM SPACE
Eyal AMITAI

1630 JSM18/30P/B20-007
ERRORS IN RETRIEVED PRECIPITATION AND LATENT HEATING RATES FROM PASSIVE MICROWAVE RADIOMETRY
William S. OLSON, Song YANG, Christian D. KUMMEROW, Wei-Kuo TAO, Scott A. BRAUN, Yansen WANG, Stephen E. LANG, Daniel E. JOHNSON, Christine CHIU

1700 JSM18/30P/B20-008
ERROR ASSESSMENT OF AREAL PRECIPITATION ESTIMATES WITHIN THE CARPE DIEM PROJECT
Jonas OLSSON, Barbro JOHANSSON

1715 JSM18/30P/B20-009
PRECIPITATION ESTIMATE USING METEOSAT-6 RAPID SCAN DATA FOR THE AUGUST 2002 FLOOD
Franz H. BERGER

JWM01 Monday, June 30 PM
WATER AND ENERGY BUDGET WORKSHOP (IAMAS, IAHS)
Location: Site C, Room 24

Presiding Chairs: A. Hall, T. Oki

1415 JWM01/30P/C24-001
DEVELOPMENT OF CEOP REFERENCE SITE DATA SETS
Scot M. LOEHRER, Linda E. CULLY, Steven F. WILLIAMS

1430 JWM01/30P/C24-002
THE UPPER TROPOSPHERIC HUMIDITY TRENDS FROM 1949 TO 1978
Shi-Keng YANG, Masao KANAMITSU

1445 JWM01/30P/C24-003
SPATIAL AND TEMPORAL VARIABILITY OF SATELLITE-DERIVED WATER VAPOR TRANSPORTS OVER THE ASIAN MONSOON REGIONS DURING 1991 SUMMER
Seong-Chan PARK, Byung-Ju SOHN

1500 JWM01/30P/C24-004
THE ATMOSPHERIC WATER VAPOR FLUX OVER THE QILIAN-HEIHE VALLEY
Keli WANG, Guodong CHENG, Hao JIANG, Lijie ZHANG

1515 JWM01/30P/C24-005
CHARACTERISTICS OF VARIATION IN TROPOSPHERIC WATER VAPOR TRANSPORT.
Kazuhiro OSHIMA, Koji YAMAZAKI

1530 JWM01/30P/C24-006
THE MOISTURE TRANSPORT AND THE ANOMALOUS SUMMERTIME PRECIPITATION OVER CONTINENTAL CHINA FOR 1951-1999
Tianjun ZHOU

1545 JWM01/30P/C24-007
VARIABILITIES OF RAINFALL IN MONGOLIA AND POSSIBLE ROLE OF MOISTURE RECYCLING
Shao-Fen TIAN

1600 BREAK

1630 JWM01/30P/C24-008
AN ANALYSIS OF MONTHLY GLOBAL LAND AND OCEANIC PRECIPITATION FROM 1948 TO THE PRESENT
Mingyue CHEN, Pingping XIE, John E. JANOWIAK, Phillip A. ARKIN, Thomas M. SMITH

1645 JWM01/30P/C24-009
GLOBAL PRECIPITATION MEASUREMENT BY SATELLITES FOR WATER BUDGET STUDY
Kenji NAKAMURA, Riko OKI, Shinsuke SATOH, Toshio IGUCHI

WEEK
A
MON
PM

- 1700 JWM01/30P/C24-010**
SNOW PROCESSES IN THE SOUTHERN MOUNTAINOUS TAIGA OF EASTERN SIBERIA 2: SPATIAL AND TEMPORAL VARIATION OF SNOW SUBLIMATION
Yinsheng ZHANG, Kazuyoshi SUZUKI, Tsutomu KADOTA, Tetsuo OHATA, Jumpei KUBOTA
- 1715 JWM01/30P/C24-011**
ESTIMATION OF HEAT AND MOISTURE BUDGETS AND SURFACE TURBULENT HEAT FLUX BASED ON RADIOSONDE OBSERVATIONS IN INDOCHINA PENINSULA
Eisho AZUMA, Yoshihiro TACHIBANA, Shinya OGINO, Jun INOUE, Akira WATANABE
- 1730 JWM01/30P/C24-012**
A COMPARATIVE STUDY OF THE SURFACE FLUXES DERIVED FROM FOUR DIMENSIONAL DATA ASSIMILATION PRODUCTS (GAME REANALYSIS) WITH ASIAN AUTOMATIC WEATHER STATION NETWORK (AAN) OBSERVATIONS
Akiyo YATAGAI, Michiaki SUGITA, Nobuo YAMAZAKI, Oh'izumi MITSUO
- 1745 JWM01/30P/C24-013**
PROCESS OF WATER VAPOR TRANSFER OVER TUNDRA VEGETATION
Norifumi SATO, Yuji KODAMA, Yoshiyuki ISHII, Nobuyoshi ISHIKAWA, Tetsuo OHATA
- 1800 JWM01/30P/C24-014**
2ON MEASURING AND REMOTE SENSING SURFACE ENERGY PARTITIONING OVER THE TIBETAN PLATEAU AND ARID AREAS
Yao Ming MA, H. ISHIKAWA, T. KOIKE, Ronghui HUANG, Zhongbo SU, Massimo MENENTI

JSP01
Monday, June 30 PM

THE DECADEAL TO CENTENNIAL VARIABILITY OF THE OCEAN AND ATMOSPHERE (IAPSO, IAMAS, CLIVAR)
 Location: Site B, Room 21

Presiding Chairs: D. W. Pierce, F.-F.Jin

- 1400 JSP01/30P/B21-001**
WHAT DO MODEL STUDIES TELL US ABOUT THE ORIGIN OF NORTH PACIFIC DECADEAL CLIMATE VARIABILITY?
David W. PIERCE
- 1430 JSP01/30P/B21-002**
RESPONSE OF THE KUROSHIO EXTENSION TO ROSSBY WAVES EXCITED BY LATE 1970S' WIND SHIFT
Bunmei TAGUCHI, Shang-Ping XIE, Humio MITSUDERA, Masami NONAKA
- 1450 JSP01/30P/B21-003**
SEASONALITY OF DECADEAL SST ANOMALIES IN THE NORTHWESTERN PACIFIC
Takashi MOCHIZUKI, Hideji KIDA
- 1510 JSP01/30P/B21-004**
ON THE GENERATION OF DECADEAL SPICINESS ANOMALIES IN THE OCEAN
Niklas SCHNEIDER
- 1530 JSP01/30P/B21-005**
DECADEAL MODE WATER VARIATION IN A MODEL OF THE NORTH PACIFIC
Jordan T. DAWE, LuAnne THOMPSON
- 1550**
BREAK
- 1610 JSP01/30P/B21-006**
INTERDECADEAL VARIABILITY OF THE SEASONAL-SCALE PERSISTENCE IN THE TROPICAL TROPOSPHERIC TEMPERATURE
Takuji KUBOTA, Toru TERA0, Tatsuya IWASHIMA
- 1630 JSP01/30P/B21-007**
LOW-FREQUENCY MIDLATITUDE VARIABILITY IN A QUASI-GEOSTROPHIC COUPLED MODEL
Andrew McColl HOGG, William Kurt DEWAR, Peter Douglas KILLWORTH, Jeffrey Ralph BLUNDELL
- 1650 JSP01/30P/B21-008**
OCEANIC AND ATMOSPHERIC EVIDENCE FOR A PACIFIC DECADEAL OSCILLATION (PDO) PHASE SHIFT AFTER 1998
Gary S.E. LAGERLOEF, Patrick CUMMINS, Jeffrey POLOVINA, Gary T. MITCHUM
- 1710 JSP01/30P/B21-009**
A MODEL STUDY ON THE 1988/89 WARMING EVENT IN THE NORTHERN NORTH PACIFIC
Jing-Jia LUO, Toshio YAMAGATA
- 1730 JSP01/30P/B21-010** **Invited**
LONG-TERM AND DECADEAL VARIATIONS OF HYDROGRAPHY AND WATER MASSES IN THE EAST SEA
Kuh KIM, Young Oh KWON, Hong-Sik MIN, Dong-Jin KANG, Kyung-Ryul KIM

JSS01
Monday, June 30 PM

HAGIWARA SYMPOSIUM ON MONITORING AND MODELING OF EARTHQUAKE AND VOLCANIC PROCESSES FOR PREDICTION (IASPEI, IAVCEI, IAG, IAGA)
Co-Sponsored by the National Research Institute for Earth Science and Disaster Prevention
 Location: Site A, Room 3

Co-Conveners: N. Hirata, K. Ishihara
Presiding Chair: M. Ishida

- 1405 JSS01/30P/A03-001**
LATE PROFESSOR HAGIWARA: HIS CAREER WITH EARTHQUAKE PREDICTION
Masakazu OHTAKE
- 1430 JSS01/30P/A03-002**
RECENT PROGRESS OF SEISMIC OBSERVATION NETWORKS IN JAPAN
Yoshimitsu OKADA, Keiji KASAHARA, Sadaki HORI, Kazushige OBARA, Shoji SEKIGUCHI, Hiroyuki FUJIWARA, Akira YAMAMOTO
- 1455 JSS01/30P/A03-003**
THE CONTINUOUS GPS NETWORK OF JAPAN AND ITS IMPACT ON EARTHQUAKE PREDICTION
Takeshi SAGIYA
- 1520 JSS01/30P/A03-004**
MONITORING AND WARNING SYSTEM OF JAPAN METEOROLOGICAL AGENCY : HISTORY AND PROSPECT
Noritake NISHIDE
- 1545**
BREAK
- 1605 JSS01/30P/A03-005**
THE EARTHSOPE INITIATIVE AND THE STUDY OF EARTHQUAKES
Paul Gordon SILVER
- 1630 JSS01/30P/A03-006**
EARTHQUAKE PREDICTION IN CHINA
Chen YONG, Li LI, Jin ANSHU
- 1655 JSS01/30P/A03-007**
GEOCHEMICAL PRECURSORS OF THE BIGEARTHQUAKES IN KAMCHATKA
Evgenii I. GORDEEV, Pier Francesco BIAGI
- 1720 JSS01/30P/A03-008**
FOUR RECENT DOME-BUILDING ERUPTIONS AT MT. USU AND PROGRESS OF MITIGATING VOLCANIC HAZARDS IN 20TH CENTURY
Hiromu OKADA
- 1745 JSS01/30P/A03-009**
SEISMIC QUIESCENCE PRECURSORS TO TWO M7 EARTHQUAKES ON SAKHALIN ISLAND, MEASURED BY TWO METHODS
Max WYSS, Gennady SOBOLEV, James D. CLIPPARD

JSV02
Monday, June 30 PM

VOLCANISM AND THE EARTH'S ATMOSPHERE (IAVCEI, IAMAS)
 Location: Site A, Room 2

Presiding Chairs: A. Robock, S. Self

- 1400 JSV02/30P/A02-001** **Invited**
STRATOSPHERIC AEROSOL OBSERVATIONS BY THE STRATOSPHERIC AEROSOL AND GAS EXPERIMENTS SERIES
Larry W. THOMASON, Ghassan TAHA
- 1425 JSV02/30P/A02-002** **Invited**
LONG TERM SURFACE AND IN SITU MEASUREMENTS OF STRATOSPHERIC AEROSOL: A COMPARISON OF VOLCANICALLY PERTURBED AND QUIESCENT PERIODS.
Terry DESHLER, James M. ROSEN, David J. HOFMANN, Betsy WEATHERHEAD, Horst JÄGER, Mary T. OSBORN, Robert Clemesha BARCLAY, J. Ben LILEY
- 1450 JSV02/30P/A02-003**
PRIORITIES FOR FUTURE REAL-TIME VOLCANIC CLOUD MONITORING IN THE INDIAN OCEAN AND WESTERN PACIFIC
Andrew Craig TUPPER, Yasuhiro KAMADA, Rodney POTTS
- 1510 JSV02/30P/A02-004**
REMOTE FT-IR MONITORING OF VOLCANIC PLUME CHEMISTRY AT ASO VOLCANO, JAPAN
Toshiya MORI, Kenji NOTSU
- 1530 JSV02/30P/A02-005**
THE ORIGIN OF EXCESS SULFUR DIOXIDE IN VOLCANIC CLOUDS: EVIDENCE FROM TIME-SERIES TOTAL OZONE MAPPING SPECTROMETER (TOMS) DATA
Simon CARN, Stephen SCHAEFER, Arlin KRUEGER

1550 BREAK

1620 JSV02/30P/A02-006

THE TOBA TUFF IN THE PENINSULA INDIA: AS A CLUE FOR THE ACHEULIAN PUZZLE

CHANG-HWA CHEN, Y.P. KU, S. MISHRA, J. J.-S. SHEN, Y. IIZUKA

1640 JSV02/30P/A02-007

¹⁵N ENRICHED GONDWANA LAMPROITES, EASTERN INDIA: ATMOSPHERIC N IN THE MANTLE SOURCE

Y. JIA, R. KERRICH, Alok K. GUPTA, William S. FYFE

1700 JSV02/30P/A02-008

VOLCANIC DOME COLLAPSES ON MONTSERRATTRIGGERED BY INTENSE RAINFALL

Adrian J. MATTHEWS, Jenni BARCLAY

1720 JSV02/30P/A02-009

SOURCE MECHANISMS OF THE 2001 AND 2002 FLANK ERUPTIONS OF MOUNT ETNA, ITALY: CONSTRAINTS FROM OLIVINE MELT INCLUSIONS AND DISSOLVED VOLATILES

Nicole METRICH, Patrick ALLARD, Nicolas SPILLIAERT, Daniele ANDRONICO, Mike BURTON, Eline MIGNOT

JSV03

Monday, June 30 PM

FLOOD BASALT VOLCANISM (IAVCEI, IASPEI)

Location: Site A, Room 1

Presiding Chairs: I. Campbell, S. KlempererR. Ernst

PLUMES & FLOOD BASALTS

1400 JSV03/30P/A01-001

ROLE OF ECLOGITE IN HAWAIIAN PLUME

Eiichi TAKAHASHI, Zhang-Young REN , Naoto HIRANO, Yu NISHIHARA

1430 JSV03/30P/A01-002

MAGMATIC EVOLUTION IN HALEAKALA VOLCANO, HAWAII

Zhong-Yuan REN, Zhong-Yuan REN, Eiich TAKAHASHI, Kevin T.M. JOHNSON, Tomoyuki SHIBATA, Masako YOSHIKAWA, Yuji ORIHASHI

1450 JSV03/30P/A01-003

MELTING RATES AND MELTING EFFICIENCIES IN MANTLE PLUMES

Ian Henry CAMPBELL, Geoffrey R. DAVIES

15:10 BREAK

1540 JSV03/30P/A01-004

THE EMERGENCE OF PRIMARY HOTSPOTS AS LARGE IGNEOUS PROVINCES AT EARTH SURFACE IN THE LAST 300 MA

Vincent E. COURTILOT, Jean BESSE

1600 JSV03/30P/A01-005

IMPACT ORIGIN OF THE GREATER ONTONG JAVA PLATEAU?

Millard F. COFFIN, Stephanie P. INGLE

1620 JSV03/30P/A01-006

THE ONTONG JAVA PLATEAU: INSIGHTS FROM RECENT ODP DRILLING

J.J. MAHONEY, J.G. FITTON, P.J. WALLACE

1650 JSV03/30P/A01-007

FRONTIERS OF LARGE IGNEOUS PROVINCE RESEARCH

Richard E. ERNST, Kenneth L. BUCHAN, Ian H. CAMPBELL



IAGA

GAI.01

Monday, June 30 PM

EXTRATERRESTRIAL ROCK MAGNETISM AND THE ORIGIN OF REMANENCE IN THE SOLAR SYSTEM

Location: Site A, Room 13

Convener: P. Rochette

Co-Convener: M. Funaki

Presiding Chairs: M. Fuller, M. Funaki

1400 GAI.01/30P/A13-001

ITURRALDE: A POSSIBLE IMPACT STRUCTURE AT THE EDGE OF THE AMAZON IN NORTHERN BOLIVIA

Peter WASILEWSKI, Gunther KLETETSCHKA, Compton TUCKER, Tim KILLEEN

1420 GAI.01/30P/A13-002

MAGNETIC CLASSIFICATION OF METEORITES

Pierre ROCHETTE, Leonardo SAGNOTTI, Guy CONSOLMAGNO, Michelle DENISE, Luigi FOLCO, Jerome GATTACCECA, Marisa OSETE, Lauri PESONEN

1440 GAI.01/30P/A13-003

SHOCK REMANENT MAGNETIZATION (SRM) AT 5, 10 AND 20GPA FOR DEMAGNETIZED CU98%CO2% SAMPLES

Minoru FUNAKI, Yasuhiko SYONO

1500 GAI.01/30P/A13-004

ORIGIN OF THE REMANENT MAGNETIZATION OF A FRESHLY FALLEN LL ORDINARY CHONDRITE

Jérôme GATTACCECA, Pierre ROCHETTE, Michele DENISE

1520 GAI.01/30P/A13-005

SNC-METEORITES: MAGNETIC SIGNATURE AND RAMAN-SPECTROSCOPY

Viktor H. HOFFMANN, Rupert HOCHLEITNER, Gilla SIMON, Thomas FEHR, Juergen POPP, Nico TARCEA, Minoru FUNAKI

1540 GAI.01/30P/A13-006

MAGNETIC SIGNATURE OF THE ANTARTIC NAHKLITE Y000593

Minoru FUNAKI, Viktor H. HOFFMANN, Koiji FUKUMA

1600 BREAK

1620 GAI.01/30P/A13-007

ROCK MAGNETIC AND FERROMAGNETIC RESONANCE TESTS FOR MAGNETOSOME CHAINS IN ALH84001

Benjamin Paul WEISS, Soonsam KIM, Joseph KIRSCHVINK, Hojatollah VALI, Mohan SANKARAN, Atsuko KOBAYASHI

1640 GAI.01/30P/A13-008

HIGH PRESSURE MAGNETIC TRANSITION IN MONOCLINIC PYRRHOTITE AND IMPACT DEMAGNETIZATION ON MARS

Pierre ROCHETTE, Gerard FILLION, Rafik BALLOU, Fabrice BRUNET, Bachir OULLADI, Lon HOOD

1700 GAI.01/30P/A13-009

MAGNETIZATION OF ALH84001AND A MODEL FOR THE MARTIAN MAGNETIC ANOMALIES.

Ed SCOTT, Mike FULLER

1720 GAI.01/30P/A13-010

THE CRUSTAL MAGNETIC FIELD OF MARS: ITS IMPLICATIONS ON THE LITHOSPHERE PROPERTIES

Benoit LANGLAIS, Michael PURUCKER, Mioara MANDEA

1740 GAI.01/30P/A13-011

NEW MECHANISMS FOR ANOMALOUS LUNARMAGNETISM

Manuel GRANDE, Robert BINGHAM, Barry KELLETT

GAI.01-Posters

Monday, June 30 PM

EXTRATERRESTRIAL ROCK MAGNETISM AND THE ORIGIN OF REMANENCE IN THE SOLAR SYSTEM

Location: Site D

1400-139 GAI.01/30P/D-001

Poster

THE ACHIEVMENTS OF PIEZOELECTRIC MODEL FORMATION OF TERRESTRIAL MAGNETISM

Dgahangir Khasanovich RASULOV

GAI.05-Posters

Monday, June 30 PM

OBSERVATIONAL CONSTRAINTS ON FIELD BEHAVIOR: (PALEO) SECULAR VARIATION, PALEOINTENSITY, REVERSAL FREQUENCY AND AGE DATING (SEDI)

Location: Site D

Convener: W. Krijgsman

1400-140 GAI.05/30P/D-001

Poster

PALESECULAR VARIATIONS OF GEOMAGNETIC FIELD RECORDED ON PLEISTOCENE SEDIMENTS IN ARMENIA

Hasmik Ashot VARDANYAN, Juletta MINASYAN

1400-141 GAI.05/30P/D-002

Poster

A 45KY GEOMAGNETIC FIELD INTENSITY RECORD OF HAWAIIAN LAVAS: THE MICROWAVE PALAEOINTENSITY TECHNIQUE

Martin Nicholas GRATTON, John SHAW, Emilio HERRERO-BERVERA

GAI.09-Posters

Monday, June 30 PM

ELECTRICAL AND ELECTROMAGNETIC STUDIES IN GEOTHERMALLY ACTIVE REGIONS

Location: Site D

Convener: T. Harinarayana

1700-131 GAI.09/30P/D-001

Poster

TELLURIC-MAGNETOTELLURIC MAPPING OF TRSTENIK REGION (SERBIA)

Nenad SMILJANIC

WEEK

A

MON

PM

1700-132	GAI.09/30P/D-002	Poster
3-D MODELING OF PUGA GEOTHERMAL FIELD, NW HIMALAYA, INDIA Abdul Azeez K.K., Harinarayana T.		
1700-133	GAI.09/30P/D-003	Poster
USING ELECTROMAGNETIC METHOD TO LOCATE HEAT RESERVOIR IN N-W OF IRAN. Nasser Hossain. Z. GUYA, Mostafa NAGHIZADEH		
1700-134	GAI.09/30P/D-004	Poster
PRESSURE-DEPENDENCE OF THE ELECTRICAL RESISTIVITY OF NATURAL ZEOLITES FROM DECCAN TRAP, MAHARASHTRA, INDIA Gopalakrishnarao PARTHASARATHY		
1700-135	GAI.09/30P/D-005	Poster
A NUCLEAR COLLAPSE THEORY FOR EARTHQUAKE Takaaki MATSUMOTO		
1700-136	GAI.09/30P/D-006	Poster
A THEORY FOR PREDICTING EARTHQUAKE BY MICRO BALL LIGHTNING Takaaki MATSUMOTO		
1700-137	GAI.09/30P/D-007	Poster
DEEP STRUCTURE OF THE EARTH'S CRUST OF PACIFIC REGION FROM SATELLITE MAGNETIC DATA Andrei Leonidovich KHARITONOV, Nina M. ROTANOVA, Alfia Kh. FRUNZE		
1700-138	GAI.09/30P/D-008	Poster
SEISMIC ACTIVE AND VOLCANIC STRUCTURES OF SOUTH-EASTERN ASIA FROM SATELLITE AND GROUND DATA Andrei Leonidovich KHARITONOV, Vladimir A. RASHIDOV		

GAI.11	Monday, June 30 PM
GEODYNAMO, THEORIES AND EXPERIMENTS (SEDI)	
Location: Site A, Room 8	
Presiding Chair: A. Kageyama	

1400	GAI.11/30P/A08-001	
DYNAMO PROCESS IN THE EARTH AND TERRESTRIAL PLANETS Masaru KONO		
1430	GAI.11/30P/A08-002	
COMPOSITIONAL CONVECTION IN THE PRESENCE OF A MAGNETIC FIELD Ibrahim A. ELTAYEB, Elsadig A. HANZA, Joseph JERVASE, Edamana V. KRISHNAN, David E. LOPER		
1450	GAI.11/30P/A08-003	
BUOYANCY-DRIVEN PERTURBATIONS IN A RAPIDLY ROTATING, ELECTRICALLY CONDUCTING FLUID Arnaud CHULLIAT, David LOPER, Hisayoshi SHIMIZU		
1510	GAI.11/30P/A08-004	Invited
KINEMATIC QUASIGEOSTROPHIC DYNAMOS Philippe CARDIN, Julien AUBERT, Nathanael SCHAEFFER		
1530	GAI.11/30P/A08-005	
ELECTROMAGNETIC FIELD VARIATIONS GENERATED BY OSCILLATING ZONAL FLOWS IN A KINEMATIC DYNAMO Hisayoshi SHIMIZU, Hisashi UTADA		

1550	BREAK
1610	GAI.11/30P/A08-006
PRECESSIONAL FLOWS IN SPHEROIDAL CAVITIES Philippe CARDIN, Dominique JAULT, Jérôme NOIR	
1640	GAI.11/30P/A08-007
MASS REDISTRIBUTION IN THE CORE AND TIME-VARYING GRAVITY AT THE EARTH'S SURFACE Weijia KUANG, Benjamin F. CHAO, Chris COX, Ming FANG	
1700	GAI.11/30P/A08-008
VARIATIONS IN THE EARTH'S GRAVITATIONAL FIELD CAUSED BY TORSIONAL OSCILLATIONS IN THE CORE Mathieu DUMBERRY, Jeremy BLOXHAM	
1720	GAI.11/30P/A08-009
GEOMAGNETIC FIELD PRODUCED BY CURRENTS NEAR THE LIQUID CORE BOUNDARIES Sergei V. STARCHENKO, Vsevolod V. BOTVINOVSKY, German M. SOLODOVNIKOV	
1740	GAI.11/30P/A08-010
EVOLUTION OF MAGNETIC FIELD ON OUTER CORE BOUNDARIES Irina KITASHVILI, Alexander GUSEV	

GAI.01	Monday, June 30 PM
IONOSPHERE-THERMOSPHERE-MAGNETOSPHERE COUPLING	
Location: Site A, Room 7	
Presiding Chair: M. Lockwood	

1400	GAI.01/30P/A07-001	
SIGNATURES OF MAGNETOSPHERIC SUBSTORMS IN THE GEOMAGNETIC H-FIELD OF DAYSIDE EQUATORIAL REGION: ORIGIN OF THE IONOSPHERIC COMPONENT Hanumath Sastri JANDHAYALA, Y. KAMIDE, K. YUMOTO		
1420	GAI.01/30P/A07-002	Invited
THE SUB-AURORAL POLARIZATION STREAM: INNER MAGNETOSPHERE-IONOSPHERE COUPLING DURING DISTURBED CONDITIONS John C. FOSTER, Hien B. VO		
1450	GAI.01/30P/A07-003	Invited
SELF-CONSISTENT MODELING OF INNER MAGNETOSPHERIC ELECTRIC FIELDS: RECENT RESULTS Stanislav SAZYKIN, Richard A. WOLF, Robert W. SPIRO, Mei-Ching FOK, Pontus BRANDT, Marc R. HAIRSTON		
1520	GAI.01/30P/A07-004	
FULLY COUPLED MICHIGAN MHD - RICECONVECTION MODEL FOR A NORTHWARD TURNING IMF BZ Tamas I. GOMBOSI, Darren L. DE ZEEUW, Stanislav SAZYKIN, Richard A. WOLF, Kenneth G. POWELL		
1540	GAI.01/30P/A07-005	
A MODELING STUDY OF THE IONOSPHERIC CONDUCTIVITIES IN THE AURORAELECTROJET Bei-Chen ZHANG, Yohsuke KAMIDE, Rui-Yuan LIU		

1600	BREAK
1620	GAI.01/30P/A07-006
VARIATIONS OF IONOSPHERIC EFFECTS OF GEOMAGNETIC STORMS IN DIFFERENT SEASONS AT DIFFERENT SOLAR ACTIVITY Vladimir I. KURKIN, Olga M. PIROG, Nelja M. POLEKH, Geliy A. ZHEREBTSOV	
1640	GAI.01/30P/A07-007
THE SOLAR FLUX AND SEASONAL EFFECTS ON THE TOPSIDE IONOSPHERIC ION DENSITY AND TEMPERATURE Chi-Kuang CHAO, S.-Y. SU, H.C. YEH	
1700	GAI.01/30P/A07-008
AN INVESTIGATION OF THE IONOSPHERIC RESPONSE TO A STRONG GEOMAGNETIC STORM IN DIFFERENT LATITUDES AND LONGITUDES OF THE EAST-ASIAN REGION Olga M. PIROG, Geliy A. ZHEREBTSOV, Nelly M. POLEKH, Anatolii V. TASHCHILIN, Elena B. ROMANOVA	
1720	GAI.01/30P/A07-009
GLOBAL OBSERVATIONS OF O/N ₂ IN EARTH'S THERMOSPHERE DURING THE APRIL 2002 SUN-EARTH STORMS. John B. SIGWARTH, Louis A. FRANK, Geoffrey CROWLEY	
1740	GAI.01/30P/A07-010
INITIAL RESULTS OF THERMOSPHERIC VERTICAL WINDS OBSERVATION WITH CRLFPI ABOVE ALASKA IN HEX CAMPAIGN Mamoru ISHII, Mark CONDE, Roger W. SMITH, Miguel LARSEN, Eugene WESCOTT, Hans STENBAEK-NIELSEN, Bruce JOHNSON, John CRAVEN, Joseph HAWKINS, Matthew KRYNICKI, Minoru KUBOTA	

GAI.01-Posters	Monday, June 30 PM
IONOSPHERE-THERMOSPHERE-MAGNETOSPHERE COUPLING	
Location: Site D	

1400-147	GAI.01/30P/D-001	Poster
HEIGHT PROFILE OF INTENSE GEOMAGNETIC STORM EFFECTS ON IONOSPHERIC F REGION AT EUROPEAN MIDDLE LATITUDES Dalia BURESOVA, Jan LASTOVICKA		
1400-148	GAI.01/30P/D-002	Poster
THE PECULIARITIES OF VARIABILITY OF REGULAR GEOMAGNETIC VARIATION FROM DAY TO DAY Timur MALOSIEV		
1400-149	GAI.01/30P/D-003	Poster
DETERMINATION OF THE ALTITUDE OF COSMIC NOISE ABSORPTION (CNA) THROUGH A VERTICAL PARALLAX TECHNIQUE Michael Bjorn TERKILDSEN, Brian J. FRASER, Hisao YAMAGISHI, RayJ. MORRIS		

1400-150 GAII.01/30P/D-004 Poster
MODELLING OF RING CURRENT DECAY PROCESSES FOR SELECTED MAGNETIC STORMS
Nagamani V.P., Nandini NAGARAJAN , Sarma S.V.S

1400-151 GAII.01/30P/D-005 Poster
MESO-SCALE VELOCITY STRUCTURE IN THE HIGH LATITUDE F-REGION
Eric Schoen JOHNSON, Roderick A. HEELIS

1400-152 GAII.01/30P/D-006 Poster
QUASI-PERIODIC OSCILLATION OF E-REGION NEUTRAL WINDS ASSOCIATED WITH AURORAL ACTIVITY
Takeshi SAKANOI, Shoichi OKANO, Hiroshi FUKUNISHI

1400-153 GAII.01/30P/D-007 Poster
CHARACTERISTICS OF THE COROTATING AURORA OBSERVED AT POKER FLAT, ALASKA
Saori TOYOSHIMA, Hiroshi FUKUNISHI, Naofumi YOSHIDA, Minoru KUBOTA, Yasuhiro MURAYAMA

1400-154 GAII.01/30P/D-008 Poster
FIELD-ALIGNED AND IONOSPHERIC CURRENTS INFERRED FROM TEMPORALLY AND SPATIALLY COINCIDENT OERSTED SATELLITE, GROUND-BASED MAGNETOMETER AND SONDRSTROM INCOHERENT SCATTER RADAR MEASUREMENTS
Jurgen WATERMANN, Ole RASMUSSEN, Freddy CHRISTIANSEN, Peter STAUNING, Jeffrey P. THAYER

1400-155 GAII.01/30P/D-009 Poster
MAGNETOSPHERIC VLF RESPONCE TO THE ATMOSPHERIC INFRASONIC WAVES
Peter Alexeevich BESPALOV, Olga Nikolaevna SAVINA, Vera Gennadievna MIZONOVA

1400-156 GAII.01/30P/D-010 Poster
ELECTRODYNAMICS OF TRANSPOLAR AURORAE
Lars G. BLOMBERG, Judy A. CUMNOCK

1400-157 GAII.01/30P/D-011 Poster
STUDY OF ELF/VLF WAVES OVER THE ANTARCTICA OBSERVED BY MULTIPLE STRATOSPHERIC BALLOONS
Taketoshi MIYAKE, Toshimi OKADA, Hisao YAMAGISHI, Akihiro CHINO, Takamasa YAMAGAMI, Yukihiko MATSUZAKA, Yoshitaka SAITO

1400-158 GAII.01/30P/D-012 Poster
DERIVATION OF THE AVERAGE ENERGY OF PRECIPITATING ELECTRONS USING MULTI-WAVELENGTHS PHOTOMETER AND EISCAT RADAR OBSERVATIONS
Kazuhiro ADACHI, Ryoichi FUJII, Satonori NOZAWA, Toshiaki YAMAGUCHI, Shin-ichiro OYAMA, Asgeir BREKKE, Chris M. HALL, Takayuki ONO

1400-159 GAII.01/30P/D-013 Poster
IONOSPHERIC ELECTRIC FIELD PERTURBATIONS AT HIGH LATITUDES AND THE EQUATOR ASSOCIATED WITH A GEOMAGNETIC SUDDEN COMMENCEMENT
Manabu SHINOHARA, Takashi KIKUCHI, Kenro NOZAKI, Kiyohumi YUMOTO

1400-160 GAII.01/30P/D-014 Poster
RESPONSE OF TOPSIDE ELECTRON TEMPERATURE DURING SOLAR MAXIMA TO THE 27 DAY PERIOD IN SOLAR ACTIVITY
Vladimir TRUHLIK, Ludmila TRISKOVA, Jan SMILAUER

1400-161 GAII.01/30P/D-015 Poster
SOLAR CYCLE INFLUENCE ON THE TOPSIDE ION COMPOSITION
Vladimir TRUHLIK

1400-162 GAII.01/30P/D-016 Poster
PARTICLE PRECIPITATION CHARACTERISTICS IN THE DAYSIDEFOUR-SHEET FIELD-ALIGNED CURRENT STRUCTURE
Genta UENO, Tomoyuki HIGUCHI, Shin-ichi OHTANI, Patrick T. NEWELL

GAII.01**Monday, June 30 PM**

WHAT ARE THE CAUSES AND MECHANISMS FOR PARTICLE ACCELERATION ASSOCIATED WITH AURORA?
Location: Site A, Room 6

Presiding Chairs: D. Lummerzheim, R. Strangeway

1400 GAII.01/30P/A06-001 Invited
TEMPORAL VARIABILITY OF THE FIELD-ALIGNED PARTICLE ACCELERATION ABOVE THE AURORAL OVAL
Toshifumi MUKAI

1430 GAII.01/30P/A06-002 Invited
DIRECT OBSERVATIONS OF OBLIQUE DOUBLE LAYERS IN THE AURORA
Robert E. ERGUN

1500 GAII.01/30P/A06-003
PARALLEL ELECTRIC FIELDS AND DOUBLE LAYERS IN THE AURORAL REGION
Viviane PIERRARD, Joseph F. LEMAIRE, Alphonse MAGNUS

1520 GAII.01/30P/A06-004
ROLE OF RAREFACTION SHOCKS IN CREATING AURORAS
Nagendra SINGH

1540 GAII.01/30P/A06-005
PONDEROMOTIVE FORCES AND THE OUTFLOW OF IONOSPHERIC PLASMA
Rickard N.A. LUNDIN, Anatol GUGLIELMI

1600**BREAK**

1620 GAII.01/30P/A06-006
ELECTRON ACCELERATION AND ION HEATING IN ALFVEN WAVES FROM FAST AND CLUSTER-2: OBSERVATIONS AND MODELLING.
Christopher Carew CHASTON, John BONNELL, Charles CARLSON, James MCFADDEN, Robert ERGUN, Robert STRANGEWAY, David KLUMPAR

1640 GAII.01/30P/A06-007
DISPERSIVE NONLINEAR ALFVEN WAVES IN STRETCHED GEOMAGNETIC FIELDS
Robert RANKIN, Jianyong LU, Richard MARCHAND, Clare WATT

1700 GAII.01/30P/A06-008
AURORAL ACCELERATION IN THE IONOSPHERIC ALFVÉN RESONATOR
Robert L. LYSAK, Yan SONG

1720 GAII.01/30P/A06-009
DIRECT COMPARISON OF PULSATING AURORA OBSERVED SIMULTANEOUSLY BY THE FAST SPACECRAFT AND FROM THE GROUND AT SYOWA STATION IN ANTARCTICA
Natsuo SATO, Yusuke EBIHARA, Yozo MURATA, Mitsuteru SATO, Thorsteinn SEMUNDSSON, Darren M. WRIGHT, Steve E. MILAN, Mark LESTER, C.W. CARLSON

1740 GAII.01/30P/A06-010
INTERACTION OF ALFVEN WAVE WITH THE AURORAL ACCELERATION REGION: NEW MECHANISM OF THE ULF WAVE MODULATION OF ELECTRON ACCELERATION
Viacheslav A. PILIPENKO, Evgeniy N. FEDOROV, Mark J. ENGBRETSON, Ted J. ROSENBERG

GAII.02-Posters**Monday, June 30 PM**

WHAT ROLE DO WAVES PLAY IN TRANSPORT AND ACCELERATION OF RING CURRENT AND RADIATION BELT PARTICLES?
Location: Site D

Convener: R. Horne

1400-163 GAII.02/30P/D-001 Poster
RING CURRENT INSTABILITIES EXCITED BY THE ENERGETIC OXYGEN IONS
Satyavir SINGH, Amar P. KAKAD, Gurbax S. LAKHINA

1400-164 GAII.02/30P/D-002 Poster
THE NUMERICAL MODELLING OF TRIMPIS OBSERVED ON THE ANTARCTIC PENINSULA
David NUNN, Craig RODGER, Mark CLILVERD

1400-165 GAII.02/30P/D-003 Poster
LATITUDINAL BOUNDARIES OF INTENSE PC 5 PULSATIONS DURING GEOMAGNETIC STORMS
Mark J. ENGBRETSON, L.E. SIMMS, J.L. POSCH, W.J. HUGHES, P.T. NEWELL, L.J. LANZEROTTI, V.A. PILIPENKO

1400-166 GAII.02/30P/D-004 Poster
HAMILTONIAN ANALYSIS OF OUTER ZONE ELECTRON ACCELERATION BY CHORUS WAVES
Jay M. ALBERT

1400-167 GAII.02/30P/D-005 Poster
CONTRIBUTION OF CONVECTIVE TRANSPORT TO STORMTIME RING CURRENT ELECTRON INJECTION
Shuxiang LIU, M.W. CHEN, L.R. LYONS, H.KORTH, J.M. ALBERT, J.L. ROEDER, P.C. ANDERSON, A. BOUDOURIDIS

1400-168 GAII.02/30P/D-006 Poster
DYNAMIC ULF SPECTRA ANALYSES ON STORM-TIME GEOMAGNETIC PG
Fenglin PENG, Timothy K. YEOMAN, Darren M. WRIGHT, Wen Yao XU, Gengxiong CHEN, James WILD, Minghua HONG

1400-169 GAII.02/30P/D-007 Poster
A NUMERICAL STUDY OF THE ACCELERATION OF RELATIVISTIC ELECTRONS VIA ELECTROMAGNETIC WAVES IN THE OUTER RADIATION BELT
Yuto KATOH, Takayuki ONO, Masahide IIZIMA

1400-170 GAII.02/30P/D-008 Poster
CYCLOTRON GROWTH OF ELF CHORUS AND PITCH-ANGLE SCATTERING OF RESONANT ELECTRONS IN THE DAYSIDE OUTER MAGNETOSPHERE
Satoshi YAGITANI, Isamu NAGANO, Hiroshi MATSUMOTO, Yoshiharu OMURA, Toshifumi MUKAI

WEEK
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PM

1400-171 GAI.02/30P/D-009 Poster
 POYNTING FLUX AND WAVE NORMAL MEASUREMENTS OF TERRESTRIAL EQUATORIAL WAVES
 George Blair HOSPODARSKY, Jolene S. PICKETT, Donald A. GURNETT, Michael J. LEDOCQ

GAI.12-Posters Monday, June 30 PM

HOW DOES MULTI-POINT MONITORING PROBE MULTIPLE SPATIAL AND TEMPORAL SCALES IN THE MAGNETOSPHERE?
 Location: Site D

Convenor: M.W. Dunlop

1400-172 GAI.12/30P/D-001 Poster
 IDENTIFICATION OF THE ONSET TIME AND LOCATION OF AN ISOLATED SUBSTORM USING MULTIPLE SATELLITE AND GROUND BASED OBSERVATIONS
 W.K. PETERSON, D.N. BAKER, X. LI, M. DUNLOP, A. KORTH, E. DONOVAN, R. FRIEDEL, S.B. MENDE, H. SINGER

1400-173 GAI.12/30P/D-002 Poster
 MULTIPOINT ANALYSIS OF MAGNETIC TURBULENCE IN THE PLASMA SHEET
 Zoltan VOEROS, Wolfgang BAUMJOHANN, Rumi NAKAMURA, Andrei RUNOV, Martin VOLWERK, Tielong ZHANG, Andre BALOGH, Karl-Heinz GLASSMEIER, Rudolf TREUMANN, Bernd KLECKER, Henri REME

1400-174 GAI.12/30P/D-003 Poster
 THE STEADY STATE SLOW SHOCK TRANSITION IN THE DAYSIDE EARTH'S MAGNETOSHEATH: TO BE OR NOT TO BE?
 Daniel Marcel HUBERT, Andrey A. SAMSONOV

1400-175 GAI.12/30P/D-004 Poster
 CASE STUDY OF NEAR-EARTH RECONNECTION EVENT UTILIZING MULTIPOINT SATELLITE OBSERVATIONS
 Knut SVENES, Rune Stadsnes, Stein HAALAND, Edita GEORGESCU, Finn SOERAAS, Reiner FRIEDEL, Marit Irene SANDANGER

1400-176 GAI.12/30P/D-005 Poster
 CLUSTER OBSERVATIONS OF A STRUCTURED MAGNETOSPHERIC CUSP
 Balan NANAN, H. ALLEYNE, S. WALKER, P.M.E. DECREAU, M. ANDRE, A. BALOGH, A.N. FAZAKERLEY, H. REME, N. CORNILLEAU, D.C. GURNETT

1400-177 GAI.12/30P/D-006 Poster
 DISPERSION ANALYSIS OF ULF WAVES IN THE FORESHOCK USING CLUSTER DATA
 Yasuhito NARITA, Karl-Heinz GLASSMEIER, Sebastian SCHÄFER, Uwe MOTSCHMANN, Konrad SAUER, André BALOGH, Iannis DANDOURAS, Karl-Heinz FORNAÇON, Edita GEORGESCU, Henri RÈME

1400-178 GAI.12/30P/D-007 Poster
 THE SCALE SIZE OF PC 3-4 PULSATIONS IN THE OUTER MAGNETOSPHERE: OBSERVATIONS FROM CLUSTER AND MULTIPLE GROUND-BASED OBSERVATORIES
 Mark J. ENGBRETTSON, J.R. WOODROFFE, K.N. ERICKSON, J.L. POSCH, K.-H.GLASSMEIER, A. BALOGH, H. LAAKSO, J. WATERMANN, K. YUMOTO, I.R. MANN

1400-179 GAI.12/30P/D-008 Poster
 CLUSTER WAVE AND PARTICLE OBSERVATIONS AT HIGH-ALTITUDE CUSP
 Benjamin GRISON, Thomas CHUST, Nicole CORNILLEAU-WEHRLIN, Dominique FONTAINE, Patrick CANU, Laurence REZEAU, Fouad SAHRAOUI, Gerard BELMONT, Benoit LAVRAUD, Jean-Michel BOSQUED, Mats ANDRE

1400-180 GAI.12/30P/D-009 Poster
 PROPAGATION OF CHORUS EMISSIONS CLOSE TO THE SOURCE REGION
 Ondrej SANTOLIK, Michel PARROT, Donald A. GURNETT, Jolene S. PICKETT, Milan MAKSIMOVIC, Nicole CORNILLEAU-WEHRLIN

1400-181 GAI.12/30P/D-010 Poster
 TEMPORAL AND SPATIAL FEATURES OF ULF/ELF/VLF MAGNETOSPHERIC EMISSIONS OBSERVED BY A PAIR OF CIRCUM-POLAR BALLOONS
 Hisao YAMAGISHI, Toshimi OKADA, Taketoshi MIYAKE, Akira KADOKURA, Masaki EJIRI, Yusuke EBIHARA, Masayuki KIKUCHI, Natsuo SATO, Takamasa YAMAGAMI

1400-182 GAI.12/30P/D-011 Poster
 SINGLE- AND MULTI-SPACECRAFT TECHNIQUES FOR RESOLVING THE 1D AND 2D STRUCTURE OF THE MAGNETOSPHERIC BOUNDARY
 Johan DE KEYSER, Fabien DARROUZET, Michel ROTH

1400-183 GAI.12/30P/D-012 Poster
 MAPPING OF FIELD-ALIGNED CURRENT PATTERNS DURING NORTHWARD IMF
 Peter STAUNING, Freddy CHRISTIANSEN, Jurgen WATERMANN, Ole RASMUSSEN

1400-184 GAI.12/30P/D-013 Poster
 INTERACTION OF MAGNETOSHEATH FLOW WITH HIGH LATITUDE MAGNETOPAUSE: INTERBALL AND CLUSTER INTERCOMPARISON
 Sergey P. SAVIN, E. AMATA, M. DUNLOP, M. ANDRE, P. SONG, J. BUECHNER, P.M.E. DECREAU, J.L. RAUCH, K. STASIEWICZ, J.A. SAUVAUD, J. BLECKI

1400-185 GAI.12/30P/D-014 Poster
 MULTI-SPACECRAFT OBSERVATIONS OF BROADBAND ELF EMISSIONS AND ENERGY TRANSPORT IN THE CUSP
 David J. SUNDKVIST, Mats ANDRE, Nicole CORNILLEAU-WEHRLIN, Malcom DUNLOP, Andris VAIVADS, Jan-Erik WAHLUND

1400-186 GAI.12/30P/D-015 Poster
 SPATIAL-TEMPORAL STUDY OF EMIC WAVE GROWTH REGION BY CLUSTER-II
 Kalevi MURSULA, Kai NISKALA, Raine KERTTULA, Anita AIKIO, Timo ASIKAINEN, Mats ANDRE

GAIV.01 Monday, June 30 PM

THE DYNAMIC SUN, ITS ATMOSPHERE AND WIND
 Location: Site A, Room 11

Convenor: S.R. Habbal

Co-Convenor: R. Esser

Presiding Chairs: S.R. Habbal, E. Rhodes

1400 GAIV.01/30P/A11-001 Invited
 HELIOSEISMIC PROBING OF THE DYNAMIC SOLAR INTERIOR
 Edward J. RHODES, JR.

1430 GAIV.01/30P/A11-002
 SEISMIC PROBING OF THE SUN'S LOWER ATMOSPHERE
 Stuart M. JEFFERIES, Alessandro CACCIANI, Wolfgang FINSTERLE, Paolo RAPEX, Allister KNOX, Cynthia GIEBINK

1450 GAIV.01/30P/A11-003
 TIME VARIATIONS OF SOLAR NEUTRINO FLUX DATA AND ELECTRON RECOIL ENERGY SPECTRUM
 Probhas RAYCHAUDHURI

1505 GAIV.01/30P/A11-004
 SOLAR NEUTRINO FLUX AND FRACTAL NATURE OF SOLAR INTERIOR
 Probhas RAYCHAUDHURI, Kaushik GHOSH

1520 BREAK

1550 GAIV.01/30P/A11-005
 THE RELATION BETWEEN SOLAR DYNAMO THEORY AND FLUX TUBES
 Arnab R. CHOUDHURI

1610 GAIV.01/30P/A11-006 Invited
 NUMERICAL SIMULATIONS OF CONVECTIVELY DRIVEN DYNAMOS
 Fausto CATTANEO

1640 GAIV.01/30P/A11-007 Invited
 MAGNETIC FIELDS IN THE QUIET SUN
 Jorge SANCHEZ ALMEIDA

1710 GAIV.01/30P/A11-008
 SMALL-SCALE PLASMA FLUCTUATIONS RESULTED FROM TURBULENT MOTIONS OF WEAKLY-IONIZED GAS IN THE SOLAR ATMOSPHERE
 Yuriy KYZYUROV

GAV.01-Posters Monday, June 30 PM

GLOBAL GEOMAGNETIC OBSERVATORY: TOWARDS A BETTER NETWORK OF GEOMAGNETIC OBSERVATIONS
 Location: Site D

Convenor: E. Clarke

Co-Convenors: V. Korepanov, D. Yang

1400-187 GAV.01/30P/D-001 Poster
 GEOMAGNETIC OBSERVATIONS IN KAKIOKA MAGNETIC OBSERVATORY
 Tetsuo TOKUMOTO, Akio YOSHIDA

1400-188 GAV.01/30P/D-002 Poster
 MAGNETIC MEASUREMENTS IN ESTONIA 1998-2002
 Heikki K.O. NEVANLINNA

1400-189 GAV.01/30P/D-003 Poster
 THE UNITED KINGDOM GEOMAGNETIC OBSERVATORY NETWORK - DISSEMINATING ONE-SECOND DATA IN NEAR REAL-TIME
 Christopher William TURBITT, Simon M. FLOWER, John C. RIDDICK

1400-190 GAV.01/30P/D-004 Poster
 RESULTS FROM THE BGS SOUTH ATLANTIC OBSERVATORIES: ASCENSION ISLAND AND THE FALKLAND ISLANDS
 Sarah J. REAY, Christopher W. TURBITT, Simon FLOWER, JohnC. RIDDICK, Ellen CLARKE

- 1400-191

GAV.01/30P/D-005

Poster
- THE RESTORATION PROJECT OF GEOMAGNETIC MEASUREMENTS IN LATVIA
- Juris BURLAKOV
- 1400-192

GAV.01/30P/D-006

Poster
- A NEW FRENCH-ITALIAN GEOMAGNETIC OBSERVATORY IN DOME C, ANTARCTICA
- Domenico DI MAURO, Achille ZIRIZZOTTI, Lili CAFARELLA, J.J. SCHOTT, A. PÉRÈS, J. M. CANTIN
- 1400-193

GAV.01/30P/D-007

Poster
- GEOMAGNETIC SURVEY AND APPLICATION OF GPS TECHNOLOGY
- Zhijia ZHAN, Xun ZHOU, Congli ZHAO, Jintian GAO, Wenzhi SHEN, Zhengguo ZHANG, Hehai AN, Baozong ZHAO, Fang LIANG, Jingshan YUAN, Zitao LI
- 1400-194

GAV.01/30P/D-008

Poster
- THE USE OF GPS FOR DETERMINING A TRUE NORTH BEARING FOR MEASUREMENT OF MAGNETIC DECLINATION
- James G. CARRIGAN
- 1400-195

GAV.01/30P/D-009

Poster
- MAGNETIC ANOMALY FIELD AROUND A GEOMAGNETIC OBSERVATORY
- Massimo CHIAPPINI, Iacopo NICOLOSI, Riccardo DE RITIS, Marco MARCHETTI, Antonio MELONI
- 1400-196

GAV.01/30P/D-010

Poster
- SUPER-SENSITIVE MAGNETIC OBSERVATIONS AT THE EILAT TEST SITE (FIRST RESULTS)
- Boris GINZBURG, Ivan HRVOIC, Boris SHIRMAN, Gideon STEINITZ, Hovav ZAFRIR



IAMAS

MI02

Monday, June 30 PM

CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)

Location: Site B, Room 17

Presiding Chairs: D. Randall, G.A. Isaac

- 1400

MI02/30P/B17-001

Invited
- RADIATION IN CLIMATE MODELS
- Qiang FU
- 1430

MI02/30P/B17-002
- PARAMETERIZED TREATMENT OF LONGWAVE SCATTERING BY CLOUDS IN A CLIMATE GCM
- Andrew A. LACIS
- 1445

MI02/30P/B17-003
- SOLUTION FOR CLOUD SUBGRID-SCALE VARIABILITY IN THE INFRARED
- Jiangnan LI, Howard BARKER
- 1500

MI02/30P/B17-004
- THE DYNAMICAL AND MICROPHYSICAL RESPONSE OF CIRRUS CLOUDS TO MONTE CARLO RADIATIVE TRANSFER
- Steven DOBBIE
- 1515

MI02/30P/B17-005
- CLOUD PROPERTY RETRIEVAL AND 3D RADIATIVE TRANSFER
- Robert Francis CAHALAN

MI02a-Posters

Monday, June 30 PM

CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)

Location: Site D

- 1400-197

MI02a/30P/D-001

Poster
- DIRECT NUMERICAL SIMULATION OF WATER MICRODROPLET EVOLUTION INSIDE A THUNDERCLOUD
- Oleg V. KIM, Albert L. STASENKO
- 1400-198

MI02a/30P/D-002

Poster
- QUASI-PERIODIC OSCILLATIONS IN RADIATIVE FOG DURING CALM CLEAR NIGHTS IN THE SAROBETSU MIRE HOKKAIDO, JAPAN
- Masahito YAMADA
- 1400-199

MI02a/30P/D-003

Poster
- TEST OF IN-CLOUD WATER VAPOR PARAMETERIZATION USING SHEBA/FIRE-ACE OBSERVATIONS
- Qiang FU, Shawn HOLLARS

- 1400-200

MI02a/30P/D-004

Poster
- SIMULATION OF A SQUALL LINE OVER FLORIDA USING A SPECTRAL MICROPHYSICS MESOSCALE MODEL
- Barry H. LYNN, Alexander P. KHAIN, Jimmy DUDHIA, Axel SEIFERT, Daniel ROSENFELD, Andrei POKROVSKY
- 1400-201

MI02a/30P/D-005

Poster
- THE INCLUSION OF SMALL ICE PARTICLES IN PARTICLE SIZE DISTRIBUTION PARAMETERIZATIONS AND THEIR EFFECT ON THE EVOLUTION OF MIXED PHASE CLOUDS
- Faisal S. BOUDALA, George A. ISAAC
- 1400-202

MI02a/30P/D-006

Poster
- PRELIMINARY BREAKDOWN STAGE CELLULAR AUTOMATON MODEL
- Dmitry Igorevich IUDIN, Victor Yurievich TRAKHTENGERTS, Alexander Nikolayevich GRIGORIEV, Masashi HAYAKAWA
- 1400-203

MI02a/30P/D-007

Poster
- NUMERICAL MODELING OF CLOUD MICROPHYSICS BY SERIES EXPANSION METHOD
- Kentaroh SUZUKI, Teruyuki NAKAJIMA
- 1400-204

MI02a/30P/D-008

Poster
- SUBGRID-SCALE COLUMN CLOUD GENERATOR FOR GCM CALCULATIONS OF RADIATIVE TRANSFER
- Petri K. RAISANEN, Howard W. BARKER, Marat F. KHAIRUTDINOV, David A. RANDALL
- 1400-205

MI02a/30P/D-009

Poster
- SENSITIVITY OF LOW CLOUD RADIATIVE FEEDBACK TO THE TEMPERATURE DEPENDENCE OF SUBGRID PDF SKEWNESS
- Christopher A. JEFFERY
- 1400-206

MI02a/30P/D-010

Poster
- UV LONG-TERM VARIATION TREND AND ITS REASONS IN BEIJING
- Jianhui BAI, Wang GENGCHEN
- 1400-207

MI02a/30P/D-011

Poster
- DETERMINATION OF THE OPTICAL PROPERTIES OF INHOMOGENEOUS CLOUDS AND THE SENSOR RESOLUTION SENSITIVITY
- Nobuyuki KIKUCHI
- 1400-208

MI02a/30P/D-012

Poster
- A PARAMETERIZATION OF SOLAR ENERGY DISPOSITION IN THE CLIMATE SYSTEM
- Zhaomin WANG, Rong-Ming HU, Lawrence A. MYSAK, Jean-Pierre BLANCHET, Jian FENG
- 1400-209

MI02a/30P/D-013

Poster
- A RADIATION ALGORITHM WITH CORRELATED K-DISTRIBUTION
- Jiangnan LI, Howard BARKER
- 1400-210

MI02a/30P/D-014

Poster
- RADIATIVE CALCULATIONS IN CLIMATE MODELS USING OPTIMAL CORRELATED K DISTRIBUTION METHOD THAT INCLUDE OVERLAPPING BANDS
- Hua ZHANG, Teruyuki NAKAJIMA, Tsuneaki SUZUKI, Ryoichi IMASU, Guang Yu SHI
- 1400-211

MI02a/30P/D-015

Poster
- DETERMINATION OF THE WINDOW EMISSIVITY WITH ASTER MULTI-SPECTRAL THERMAL INFRARED DATA
- Thomas SCHMUGGE, Kenta OGAWA, Frederic JACOB, Andrew N. FRENCH, Jerry RITCHIE
- 1400-212

MI02a/30P/D-016

Poster
- SURFACE SPECTRAL EMISSIVITY DERIVED FROM AQUA MODIS DATA
- Yan CHEN, Sunny SUN-MACK, Patrick MINNIS, David F. YOUNG, William L. SMITH, JR.
- 1400-213

MI02a/30P/D-017

Poster
- EFFECT OF THE VARIABILITY OF SOME RADIATIVELY ACTIVE SMALL ATMOSPHERIC ADMIXTURES (RASAA) ON SHORT-WAVE SOLAR RADIATION FLUXES
- Avtandil AMIRANASHVILI
- 1400-214

MI02a/30P/D-018

Poster
- NEW SURFACE DATA PRODUCTS FROM SATELLITE OBSERVATIONS: REDUCING MODELING AND OBSERVATIONAL UNCERTAINTIES IN CLIMATE RADIATIVE FORCING
- Alexander P. TRISHCHENKO, Yi LUO, William PARK, Rasim LATIFOVIC, Josef CIHLAR, Vladimir KOROLEVICH, Rami FILFIL
- 1400-215

MI02a/30P/D-019

Poster
- COMPARISONS BETWEEN MEASUREMENTS AND CALCULATIONS OF BROADBAND IRRADIANCE AT THE SOUTHERN GREAT PLAINS (SGP) SITE OF THE ATMOSPHERIC RADIATION MEASUREMENT (ARM) PROGRAM
- Eli Jay MLAWER, Jennifer S. DELAMERE, Shepard A. CLOUGH, Mark A. MILLER, Karen L. JOHNSON, Tim R. SHIPPERT, Chuck N. LONG, Minghua H. ZHANG, Rich A. FERRARE, Ric T. CEDERWALL, Robert G. ELLINGSON

WEEK
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1400-216	MI02a/30P/D-020	Poster
MULTI-SPECTRAL NONLOCAL METHOD FOR RETRIEVAL OF BOUNDARY LAYER CLOUD OPTICAL THICKNESS AND DROPLET EFFECTIVE RADIUS Hironobu IWABUCHI, Tadahiro HAYASAKA		
1400-217	MI02a/30P/D-021	Poster
THE TBB DECREASE IN THE UPPER TROPOSPHERIC STRATIFORM CLOUDS IN THE LIFE CYCLE OF TROPICAL LARGE CLOUD SYSTEMS Atsushi HAMADA, Noriyuki NISHI, Hideji KIDA		
1400-218	MI02a/30P/D-022	Poster
PRECIPITATING CLOUD STUDIES WITH EQUATORIAL ATMOSPHERE RADAR Findy RENGONO, Hiroyuki HASHIGUCHI, Masayuki YAMAMOTO, Shoichiro FUKAO		
1400-219	MI02a/30P/D-023	Poster
DEVELOPMENT OF A CLOUD PROFILING FM-CW RADAR AT 95 GHZ AND ITS OBSERVATION RESULTS Toshiaki TAKANO, Yumiro SUGA, Ken-ichi AKITA, Youhei KAWAMURA, Kurt SAKAI, Hiroshi KUMAGAI, Tamio TAKAMURA, Yuji NAKANISHI, Teruyuki NAKAJIMA		
1400-220	MI02a/30P/D-024	Poster
ICE-CLOUD EFFECTIVE PARTICLE SIZE PARAMETERIZATION BASED ON COMBINED LIDAR, RADAR REFLECTIVITY, AND MEAN DOPPLER VELOCITY MEASUREMENTS David Patrick DONOVAN		
1400-221	MI02a/30P/D-025	Poster
TESTING OF PROBABILITY OF CLEAR LINE OF SIGHT MODELS WITH ARM OBSERVATIONS Robert G. ELLINGSON, Ezra E. TAKARA, Yingtao MA		
1400-222	MI02a/30P/D-026	Poster
EFFECTIVE RADIUS OF CLOUD INFERRED FROM SIMULTANEOUS OBSERVATION OF LIQUID WATER PATH AND SOLAR RADIATION Tamio TAKAMURA, Naoya TSUJIOKA, Itaru OKADA, Toshiyuki MURAYAMA, Nobuo SUGIMOTO, Teruyuki NAKAJIMA		
1400-223	MI02a/30P/D-027	Poster
SEASONAL VARIATION OF RAINFALL/SNOWFALL AND ITS EFFECT ON SOIL MOISTURE IN QIRA TAKLIMAKAN DESERT, CHINA Masahide ISHIZUKA, Masao MIKAMI, Zeng Fan JIANG, Hiroyuki II, Zhang XIMING		
1400-224	MI02a/30P/D-028	Poster
SIMULTANEOUS OBSERVATIONS OF CIRRUS CLOUDS WITH A MILLIMETER-WAVE DOPPLER RADAR AND THE MU RADAR Eiko WADA		
1400-225	MI02a/30P/D-029	Poster
ROUNDNESS AND ASPECT RATIO OF PARTICLES IN ICE CLOUDS Alexei KOROLEV, George A. ISAAC		

MI10	Monday, June 30 PM
MODELING PRE-HOLOCENE CLIMATES (ICCI, IRC, ICACGP)	
Location: Site C, Room 26	

Presiding Chair: A. Weaver

1400	MI10/30P/C26-001
THE EFFECT OF INTERACTIVE OCEAN DYNAMICS ON GLOBAL AND TROPICAL COOLING DURING THE LAST GLACIAL MAXIMUM Anthony J. BROCCOLI, Chris D. HEWITT, John F. B. MITCHELL, Ronald J. STOFFER	
1420	MI10/30P/C26-002
STUDYING CLIMATE-ICE-SHEET INTERACTIONS WITH THE CLIMBER-GREMLINS MODEL Masa KAGEYAMA, Sylvie CHARBIT, Catherine RITZ	
1440	MI10/30P/C26-003
SELF MAINTENANCE MECHANISM OF ICE SHEETS OF LAST GLACIAL MAXIMUM Ayako ABE-OUCHI, Takateru YAMAGISHI, Fuyuki SAITO, Tomonori SEGAWA, Teruyuki NISHIMURA	
1500	MI10/30P/C26-004
ENSO IN THE ICE AGE Richard W. PELTIER	

1520	BREAK
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1540	MI10/30P/C26-005
SIMULATED CHANGES IN ENSO DURING THE LATE QUATERNARY Andrew B.G. BUSH	
1600	MI10/30P/C26-006
MODELLING CARBON CYCLE FEEDBACKS DURING ABRUPT CLIMATE CHANGE Tracy EWEN, Andrew J. WEAVER, Andreas SCHMITTNER	

1620	MI10/30P/C26-007
THE TIMING OF ICE-AGE TERMINATIONS DETERMINED BY WAVELET METHODS Julia C. HARGREAVES, Ayako ABE-OUCHI	
1640	MI10/30P/C26-008
ENERGY-ENTROPY BALANCE OF THE GLACIAL CLIMATE Shigenori MURAKAMI, Akio KITOH	

MI10-Posters	Monday, June 30 PM
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MODELING PRE-HOLOCENE CLIMATES (ICCL, IRC, ICACGP)
Location: Site D

Presiding Chair: A. Broccoli

1700-226	MI10/30P/D-001	Poster
ATMOSPHERIC METHANE VARIATIONS DURING THE FOUR GLACIAL-INTERGLACIAL CYCLES AT VOSTOK: SIMPLE PHASE CORRELATION WITH TEMPERATURE? Marc DELMOTTE, Jérôme CHAPPELLAZ, Ed BROOK, Pascal YIOU, S. HARDER, Jean-Marc BARNOLA, C. GOUJON, Dominique RAYNAUD, Volodia LIPENKOV		
1700-227	MI10/30P/D-002	Poster
TOTAL ORGANIC CARBON AND NITROGEN CONTENTS IN LAKE SEDIMENT AS PALEOCLIMATE PROxies -CASE STUDIES OF LAKE KIZAKI AND LAKE NOJIRI- Kinuyo KANAMARU, Fujio KUMON		
1700-228	MI10/30P/D-003	Poster
PERIODIC WEATHER AND CLIMATE VARIATIONS Vladimir V. IVANOV		
1700-229	MI10/30P/D-004	Poster
VARIATIONS AND TRENDS IN TEMPERATURE AND SOLAR RADIATION IN KUALA LUMPUR AND PETALING JAYA, MALAYSIA Mohamed E. YASSEN		
1700-230	MI10/30P/D-005	Poster
SEARCH OF NON-LINEAR OSCILLATIONS IN ANNUAL TEMPERATURE OF NORTHERN EARTH'S HEMISPHERE AND ALTERNATING WOLF'S NUMBERS Alexy I. LAPTEUKHOV		

MC07	Monday, June 30 PM
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OBSERVATIONAL AND MODEL ESTIMATES OF CLIMATE SENSITIVITY (ICDM)
Location: Site C, Room 30

Presiding Chair: M. Schlesinger

1400	MC07/30P/C30-001
REVISED PDFS OF CLIMATE SYSTEM PROPERTIES INCLUDING NATURAL AND ANTHROPOGENIC HISTORICAL CLIMATE FORCINGS Chris E. FOREST, Andrei P. SOKOLOV, Peter H. STONE, Myles R. ALLEN	
1445	MC07/30P/C30-002
DIAGNOSING CLIMATE FEEDBACKS AND CLIMATE SENSITIVITY IN GFDL'S AM2 MODELS Anthony J. BROCCOLI, Brian J. SODEN, Stephen A. KLEIN, Richard G. GUDGEL, Richard S. HEMLER, Thomas R. KNUTSON, M. Daniel SCHWARZKOPF	
1530	MC07/30P/C30-003
CONSTRUCTION OF THE LINEAR RESPONSE OPERATOR OF ATMOSPHERIC GCMS TO SMALL EXTERNAL FORCINGS Andrei S. GRITSOUN, Grant BRANSTATOR, Valentin DYMIKOV	

1600	BREAK
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1630	MC07/30P/C30-004
CLIMATE RESPONSE TO THE VERTICALLY STRATIFIED FORCING Andrei SOKOLOV	
1700	MC07/30P/C30-005
TOWARDS REDUCING UNCERTAINTY IN THE CLOUD RESPONSE TO CLIMATE CHANGE Keith D. WILLIAMS, M.A. RINGER, C.A. SENIOR, A. SLINGO	
1730	MC07/30P/C30-006
CASE STUDIES OF THE EFFECTS OF VARYING STRATOSPHERIC OZONE CONCENTRATIONS ON THE STRATOSPHERE-TROPOSPHERE SYSTEM Raymond Derrell MOORING	

MC07-Posters	Monday, June 30 PM
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OBSERVATIONAL AND MODEL ESTIMATES OF CLIMATE SENSITIVITY (ICDM)
Location: Site D

- 1600-231 MC07/30P/D-001 Poster**
EVIDENCE FOR A STEFAN-BOLTZMANN CLIMATE SENSITIVITY FROM THREE CENTURIES OF SUMMER TEMPERATURE OBSERVATIONS IN THE NETHERLANDS
Hans ERREN
- 1600-232 MC07/30P/D-002 Poster**
REFINEMENT OF PARAMETERS IN THE DISCRETE CLIMATE AND ATMOSPHERIC MODELS
Sergei A. SOLDATENKO
- 1600-233 MC07/30P/D-003 Poster**
OBSERVED AND MODELED RELATIONSHIP BETWEEN ARCTIC CLIMATE VARIABLES
Yonghua CHEN, Jennifer A. FRANCIS, James R. MILLER, Gary L. RUSSELL
- 1600-234 MC07/30P/D-004 Poster**
SOLAR RADIATION ANALYSIS AND ALBEDO CALCULATIONS ON KUWAITI ATMOSPHERE
Ahmed Abdel HADY
- 1600-235 MC07/30P/D-005 Poster**
THERMAL FLUX VARIABILITY AS A KEY FACTOR TO PRODUCE A STABLE THERMOHALINE CIRCULATION IN THE EASTERN MEDITERRANEAN SEA
Stefania S. GANZ, Andrea A. BERGAMASCO
- 1600-236 MC07/30P/D-006 Poster**
COMPARISONS OF OBSERVED AND MODELING EXTREME CLIMATE CHANGES OVER EAST ASIA
Zong-ci ZHAO, Akimasa SUMI, Jeong-Woo KIM

MC14 Monday, June 30 PM

DETECTING AND ATTRIBUTING THE EARLY SIGNS OF HUMAN INFLUENCES ON THE CLIMATE (ICCI)

Location: Site C, Room 28

Presiding Chairs: B. Santer, P. Stott

- 1400 MC14/30P/C28-001 Invited**
DETECTION OF ANTHROPOGENIC INFLUENCE ON SEA LEVEL PRESSURE
Nathan Peter GILLET, Francis ZWIERS, Andrew WEAVER, Peter STOTT
- 1430 MC14/30P/C28-002**
THE GREENHOUSE-INDUCED RADIATIVE FORCING AT THE SURFACE AS SIMULATED IN TRANSIENT CLIMATE CHANGE EXPERIMENTS AND OBSERVED
Martin WILD, Atsumu OHMURA
- 1450 MC14/30P/C28-003 Invited**
ATTRIBUTION OF CLIMATE CHANGE DURING THE 20TH CENTURY CLIMATE USING SIMPLE INDICES OF GLOBAL CLIMATE VARIABILITY AND CHANGE
Karl BRAGANZA, David J. KAROLY, Anthony C. HIRST, Peter A. STOTT, Ronald J. STOUFFER, Simon F.B. TETT
- 1520 MC14/30P/C28-004 Invited**
MULTI-RESOLUTION METHODS FOR EXTRACTING FINGERPRINTS OF EXTERNAL FORCING DURING THE LAST MILLENNIUM FROM MODEL AND PROXY DATA
Caspar M. AMMANN, Philippe NAVEAU, Hee-Seok OH, Fortunat JOOS, Stefan GERBER, David S. SCHIMMEL, Bette L. OTTO-BLIESNER
- 1550 BREAK**
- 1610 MC14/30P/C28-005 Invited**
ANTHROPOGENIC CLIMATE SIGNALS IN THE CRYOSPHERE AND THE DEEP OCEAN
Bernhard K. REICHERT, Johannes OERLEMANS, Reiner SCHNUR, Lennart BENGTTSSON
- 1640 MC14/30P/C28-006**
DETECTION AND ATTRIBUTION OF CLIMATE CHANGE IN THE OCEAN
Helene BANKS, Nathan BINDOFF, Peili WU, Peter STOTT, Richard WOOD
- 1700 MC14/30P/C28-007 Invited**
TOWARDS REGIONAL SCALE CLIMATE CHANGE DETECTION
Francis ZWIERS, Xuebin ZHANG
- 1720 MC14/30P/C28-008**
A BAYESIAN METHOD FOR REGIONAL-SCALE CLIMATE CHANGE DETECTION AND ATTRIBUTION
Seung-Ki MIN, Andreas HENSE, Won-Tae KWON
- 1740 MC14/30P/C28-009**
DETECTION AND ATTRIBUTIONS OF CLIMATE CHANGE IN THE 20TH CENTURY OVER EAST ASIA AND CHINA
Zong-ci ZHAO, Ying XU, Xiaoyan MA, Xuejie GAO



P02 Monday, June 30 PM

MARGINAL AND SEMI-ENCLOSED SEAS AND THEIR EXCHANGE WITH THE OPEN OCEAN

Location: Site C, Room 25

Presiding Chair: M. Wakatsuchi

- 1400 P02/30P/C25-001**
AN INTENSIVE JOINT JAPANESE-RUSSIAN-U.S. STUDY IN THE SEA OF OKHOTSK IN 1998-2001
Yasushi FUKAMACHI
- 1430 P02/30P/C25-002**
DEEP WATER FORMATION IN THE DERUGIN BASIN OF THE SEA OF OKHOTSK
Anatoly N. SALYUK, Gisela WINCKLER, Galina Y. PAVLOVA
- 1450 P02/30P/C25-003**
WATER EXCHANGE IN THE KURIL ISLAND STRAITS ZONE
Valentina Vasilievna MOROZ, K. T. BOGDANOV
- 1510 P02/30P/C25-004**
IMPLICATIONS OF CABBELING ON THE FORMATION AND TRANSFORMATION MECHANISM OF NORTH PACIFIC INTERMEDIATE WATER
Yuzhu YOU
- 1530 P02/30P/C25-005**
TIDAL AND UPWELLING FRONTS IN THE TAIWAN STRAIT
Jianyu HU, Hiroshi KAWAMURA
- 1550 BREAK**
- 1610 P02/30P/C25-007 Invited**
SOUTH CHINA SEA CIRCULATION AND THERMOHALINE STRUCTURE
Peter C. CHU
- 1640 P02/30P/C25-008**
CIRCULATION, TRANSPORT AND PRODUCTION IN THE BOHAI SEA
Juergen E. SUENDERMANN
- 1700 P02/30P/C25-009**
VARIABILITY OF THE CIRCULATION IN THE SOUTHERN YELLOW SEA AND EAST CHINA SEA DURING TWO INVESTIGATIVE CRUISES OF JUNE 1999
Yaochu YUAN, Yonggang LIU, Heung-jae LIE, Ruyun LOU
- 1720 P02/30P/C25-010**
THERMOHALINE AND CIRCULATION STRUCTURES IN THE NORTHWESTERN EAST CHINA SEA ADJACENT TO THE CHANGJIANG RIVER ESTUARY IN SUMMER AND WINTER
Xiaohui TANG, Fan WANG

P02a-Posters Monday, June 30 PM

MARGINAL AND SEMI-ENCLOSED SEAS AND THEIR EXCHANGE WITH THE OPEN OCEAN

Location: Site D

Presiding Chair: J. Johnson

- 1400-237 P02a/30P/D-001 Poster**
UPWELLING ALONG THE SOUTHEASTERN COAST OF KOREA
Heesook KANG, William J. TEAGUE, Gregg A. JACOBS
- 1400-238 P02a/30P/D-002 Poster**
IMPACT OF THE WIND STRESS CURL ON THE EAST/JAPAN SEA
Young Ho KIM, James RICHMAN, Cheol-Ho KIM, Kuh KIM
- 1400-239 P02a/30P/D-003 Poster**
CURRENT MEASUREMENTS AND SPECTRAL ANALYSES IN LUZON STRAIT DURING SPRING OF 2002
Yaochu YUAN, Huiqun WANG, Ruyun LOU, Hong CHEN, Kangshan WANG
- 1400-240 P02a/30P/D-004 Poster**
BATHYMETRY-INDUCED AIR-SEA INTERACTION IN THE WINTER EAST CHINA AND YELLOW SEAS
Shang-Ping XIE, Jan HAFNER, Youichi TANIMOTO, W. Timothy LIU, Hiroki TOKINAGA, Haiming XU
- 1400-241 P02a/30P/D-005 Poster**
SAR SIGNATURES OF FRONTAL STRUCTURES IN THE EAST CHINA SEA: JOINT ANALYSIS OF OCEANOGRAPHIC DATA, RADARSAT-1 AND ERS-2 SAR AND MULTI-SENSOR IMAGERY
Konstantin LITOVCHENKO

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1400-242	P02a/30P/D-006	Poster
TEMPORAL TRANSPORT VARIATIONS THROUGH THE STRAITS OF THE EAST SEA AND THEIR DRIVING MECHANISMS Sang Jin LYU, Kuh KIM		
1400-243	P02a/30P/D-007	Poster
SIMULATING THE SALT EXCHANGE BETWEEN NORTH SEA AND BALTIC SEA USING THE 3D HYDRODYNAMICAL MODEL GETM Adolf Konrad STIPS, Hans BURCHARD, Karsten BOLDING, Thomas NEUMANN		
1400-244	P02a/30P/D-008	Poster
THE ROLE OF TIDES IN THE WHITE SEA Anatoli N. PANTIULIN		
1400-245	P02a/30P/D-009	Poster
TOWARDS MODELLING OF THE BLACK SEA-AZOV SEA COUPLED SYSTEM Elisaveta Lazarova PENEVA, Adolf Konrad STIPS, Karsten BOLDING, Emil Vassilev STANEV		
1400-246	P02a/30P/D-010	Poster
INVESTIGATION OF DISTRIBUTION AND DIET OF MNEMIOPSIS LEIDYI IN THE IRANIAN COASTS OF THE CASPIAN SEA (GUILAN PROVINCE) Ahmet E. KIDEYS, Siamak BAGHERI, Jalil SABKARA, Mustafa SAILADRAHIM		
1400-247	P02a/30P/D-011	Poster
DISTRIBUTION AND ABUNDANCE OF MNEMIOPSIS LEIDYI IN THE EASTERN IRANIAN COASTS OF THE CASPIAN SEA Abolghasem ROOHI, Ahmet Erkan KIDEYS		
1400-248	P02a/30P/D-012	Poster
THE RESULTS OF CURRENTS INSTRUMENTAL MEASUREMENTS AT THE SOUTH GEORGIA SHELF Alexei V. ZIMINE, Igor K. SIGAEV		

P03	Monday, June 30 PM
THE ROLE OF TIDES, MESOSCALE PROCESSES, AND BOTTOM TOPOGRAPHY IN ENERGY TRANSFER AND MIXING	
Location: Site B, Room 19	

Presiding Chair: R. Muench

1400	P03/30P/B19-001
INTERNAL WAVE GENERATION BY TIDAL FLOW OVER SUPERCRITICAL TOPOGRAPHY IN THE DEEP OCEAN Kevin G. LAMB	
1420	P03/30P/B19-002
SCATTERING OF INTERNAL GRAVITY WAVES IN FREQUENCY SPACE ON REFLECTION FROM A ROUGH TOPOGRAPHY Tomohiro NAKAMURA, Toshiyuki AJAWI	
1440	P03/30P/B19-003
INTERNAL WAVES GENERATED IN THE LEE OF A TOPOGRAPHIC STEP Bruce R. SUTHERLAND	
1500	P03/30P/B19-004
NONLINEAR TRANSFORMATIONS OF LARGE-AMPLITUDE INTERNAL TIDES ON THE AUSTRALIAN NORTH WEST SHELF Andrey Ninelovich SEREBRYANY, Peter Eric HOLLOWAY	
1520	P03/30P/B19-005
TIDAL CONVERSION BY A KNIFE-EDGE Stefan G. LLEWELLYN SMITH, William R. YOUNG	
1540	P03/30P/B19-006
NON-TIDALLY DRIVEN ENHANCED MIXING ON THE MID-OCEAN RIDGE FLANK Andreas M. THURNHERR, Louis C. ST. LAURENT, Kevin G. SPEER, John M. TOOLE, James R. LEDWELL	

1600	BREAK
1620	P03/30P/B19-007
TURBULENT ENERGY PRODUCTION, DISSIPATION AND MIXING IN TIDAL AND DENSITY-DRIVEN FLOWS John H. SIMPSON, Tom P. RIPPETH	
1640	P03/30P/B19-008
INTERNAL WAVE GENERATION AND MIXING IN THE COASTAL OCEAN Vadim V. NAVROTSKY, Vladimir L. IZERGIN, Helen P. PAVLOVA, Helen D. KHOLODKOVICH	
1700	P03/30P/B19-009
INTERNAL TIDES AND MIXING AROUND THE MASCARENE RIDGE David A. SMEED, Adrian L. NEW, Kate L. STANSFIELD, Steven G. ALDERSON	
1720	P03/30P/B19-010
INTERNAL TIDE IN THE KARA STRAIT Eugene G. MOROZOV	

P03-Posters	Monday, June 30 PM
THE ROLE OF TIDES, MESOSCALE PROCESSES, AND BOTTOM TOPOGRAPHY IN ENERGY TRANSFER AND MIXING	
Location: Site D	

Presiding Chair: E. Morozov

1400-249	P03/30P/D-001	Poster
INFLUENCE OF THE TIDE ON ENTRAINMENT AND RELEASE OF PASSIVE POLLUTANT BY OCEAN EDDY STRUCTURES. Dmitry V. STEPANOV		
1400-250	P03/30P/D-002	Poster
ON THE CIRCULATION INDUCED BY DIAPYCNAL MIXING Shinichiro KIDA, Jiayan YANG, James F. PRICE		
1400-251	P03/30P/D-003	Poster
CURRENTS AND MIXING IN A TIDALLY ENERGETIC INLET Michael W. STACEY, Stephen POND		
1400-252	P03/30P/D-004	Poster
OBSERVATIONS OF TURBULENT DIAPYCNAL MIXING IN THE NORDIC SEAS Alberto C. NAVEIRA GARABATO, Kevin I. C. OLIVER, Andrew J. WATSON		
1400-253	P03/30P/D-005	Poster
CAN INTERNAL TIDES BE DETECTED IN DRAKE PASSAGE? Julie Louise COLLINS, Karen J. HEYWOOD, Chris W. HUGHES, J.M. VASSIE		
1400-254	P03/30P/D-006	Poster
A NUMERICAL STUDY OF THE SHELF CIRCULATION IN THE SOUTHWESTERN ATLANTIC Ricardo P. MATANO, Elbio D. PALMA, Alberto R. PIOLA		
1400-255	P03/30P/D-007	Poster
HIGH AND MID LATITUDE OBSERVATIONS OF NEAR-INERTIAL CURRENT SHEAR IN THE DEEP OCEAN USING EXPENDABLE CURRENT PROFILERS Maki NAGASAWA, Toshiyuki HIBIYA, Yoshihiro NIWA, Naoki FURUICHI, Shogo TAKAGI		
1400-256	P03/30P/D-008	Poster
ENERGY TRANSFER THROUGH STRONG DENSITY INTERFACE IN THE LAPTEV SEA: RESULT OF INTERNAL WAVES ACTIONS. Sergey Alexandrovich KIRILLOV, Igor Alexandrovich DMITRENKO		

P05	Monday, June 30 PM
THE PHYSICAL OCEANOGRAPHY OF THE INDIAN OCEAN	
Location: Site B, Room 23	

Presiding Chairs: W. Han, J.S. Godfrey

1400	P05/30P/B23-001
THERMAL DOMES IN THE BAY OF BENGAL: PHYSICS, PHYTOPLANKTON BLOOMS AND IMPLICATIONS P. N. VINAYACHANDRAN	
1430	P05/30P/B23-002
ANNUAL MEAN HEAT FLUXES INDUCED BY SEASONAL VARIATIONS IN THE NORTHERN INDIAN OCEAN J. Stuart GODFREY	
1450	P05/30P/B23-003
IMPACTS OF THE SALINITY ON THE CIRCULATION OF THE EASTERN INDIAN OCEAN DURING THE FALL WYRTKI JET Sebastien G. MASSON, Christophe E. MENKES, Pascale DELECLUSE, Jean-Philippe BOULANGER, Toshio YAMAGATA	
1510	P05/30P/B23-004
EVIDENCE FOR A THERMAL DOME IN THE ARABIAN SEA DURING WINTER MONSOON Prasad G. THOPPIL, Julie L. MCCLEAN, Motoyoshi IKEDA	
1530	BREAK
1600	P05/30P/B23-005
MECHANISM OF OFFSHORE NUTRIENT SUPPLY IN THE WESTERN ARABIAN SEA Michio KAWAMIYA	
1630	P05/30P/B23-006
OBSERVED VARIATIONS OF THE UPPER-LAYER CURRENTS IN THE EASTERN EQUATORIAL INDIAN OCEAN Yukio MASUMOTO, Hideaki HASE, Yoshifumi KURODA, Hiroshi MATSUURA, Kensuke TAKEUCHI, Keisuke MIZUNO	
1650	P05/30P/B23-007
ROLES OF HIGH-FREQUENCY RAINFALL ON THE INDIAN OCEAN-ATMOSPHERE CLIMATE Kate Q. ZHANG, Claire M. PERIGAUD	

1710 P05/30P/B23-008
 BIWEEKLY VARIABILITY OF MERIDIONAL CURRENTS AT THE EQUATOR IN THE EASTERN INDIAN OCEAN
 Debasis SENGUPTA, Retish SENAN, V.S.N. MURTY, Vijayan FERNANDO

1640 V06/30P/A05-007
 MAGMATISM OF THE LATE YANSHANIAN (CRETACEOUS) OROGENIC CYCLE IN THE COASTAL REGION OF SOUTHEAST CHINA
 Cheng-Hong CHEN, Wayne LIN, Chi-Yu LEE

P05-Posters Monday, June 30 PM
THE PHYSICAL OCEANOGRAPHY OF THE INDIAN OCEAN
 Location: Site D

1645-257 P05/30P/D-001 Poster
 CURRENT VARIABILITY AND VERTICAL MODES FROM A CURRENT METER MOORING AT 93°E IN THE EQUATORIAL INDIAN OCEAN
 Antony Korath MAZHUVANCHERRY, Sarma M.S.S., Murty Suryanarayana VADLAMANI, Somayajulu Krishna Y., Vittal TILVI

1645-258 P05/30P/D-002 Poster
 GENERAL CIRCULATION AND UPWELLING IN THE ARABIAN SEA - APPLICATION OF A MEDIUM RESOLUTION NESTED MODEL
 Felix JOSE, Ajith Joseph KOCHUPARAMPIL, Vibeke E.J. HAUGEN, Geir EVENSEN

1645-259 P05/30P/D-003 Poster
 INDIAN WINTER MONSOON RAINFALL AND THE TROPICAL INDIAN OCEAN DIPOLE: PREDICTIVE RELATIONSHIPS AND THEIR VARIABILITY
 Kumar S.R.U. Bhanu ODURY, Naidu Venkateswara CHENNU, Rao R.L. SAI

1645-260 P05/30P/D-004 Poster
 SENSITIVITY OF INDIAN OCEAN CIRCULATION TO HORIZONTAL MODEL RESOLUTION
 Xiaoming LIU, Lian XIE

1645-261 P05/30P/D-005 Poster
 CROSS-EQUATORIAL SECTION AT 77°E IN THE INDIAN OCEAN: HYDROGRAPHY AND OBSERVED CURRENTS DURING NOVEMBER 2002
 Murty Suryanarayana VADLAMANI, Babu Ramesh V., Kumari Krishna L., Sugandha SARDESSAI, Lina P. MERGULHAO, Soniya SUKUMARAN, Cathrine J. SUMATHI, Nisha S. PIRES, Antony M.K., Somayajulu Krishna Y., Krishnamacharyulu R.J.

1645-262 P05/30P/D-006 Poster
 VARIABILITY OF EQUATORIAL INDIAN OCEAN ZONAL CURRENTS DURING 1999-2002
 Retish SENAN, Debasis SENGUPTA, V.S.N. MURTY, B. N. GOSWAMI, M.S.S. SARMA



V06 Monday, June 30 PM
ORIGINS OF ARC MAGMA
 Location: Site A, Room 5

Presiding Chairs: R. Arculus, Y. Tatsum

1400 V06/30P/A05-001
 DOES SUBDUCTION EROSION OF THE UPPER PLATE OF CONVERGENT MARGINS COLOR THE GEOCHEMICAL SIGNATURE OF ARC MAGMAS?
 David William SCHOLL, Roland VON HUENE

1430 V06/30P/A05-002
 A DYNAMIC MODEL OF HOT FINGERS IN THE MANTLE WEDGE IN NORTHEAST JAPAN
 Yoshihiko TAMURA

1450 V06/30P/A05-003
 NEW EVIDENCE ON THE THERMAL STATE OF SUBDUCTING PLATES AND MECHANICAL STATE OF THE MANTLE WEDGE: SIGNIFICANCE FOR THE ORIGIN OF ARC MAGMAS
 Miles F. OSMASTON

1510 V06/30P/A05-004
 STRUCTURAL CONTROL ON VOLCANISM ALONG TAUPO VOLCANIC ZONE, NEW ZEALAND
 Valerio ACOCELLA, Karl SPINKS, Jim COLE, Andy NICOL

1530 BREAK

1600 V06/30P/A05-005
 ARE ARC BASALTS DRY, WET, OR BOTH? EVIDENCE FROM SUMISU CALDERA, IZU-BONIN ARC, JAPAN
 Yoshihiko TAMURA, Ken-ichiro TANI, Hiroshi SHUKUNO, Naoko IRINO, Jiro NAKA, Richard S. FISKE

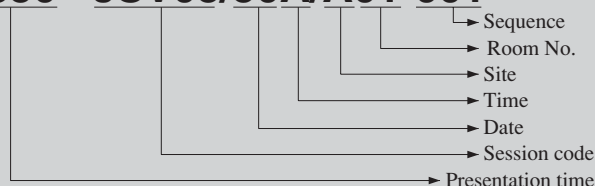
1620 V06/30P/A05-006
 A REASON FUJI VOLCANO ISSUES ONLY BASALT MAGMA
 Toshitsugu FUJII, Mitsuhiro YOSHIMOTO, Takayuki KANEKO, Atsushi YASUDA

WEEK
A
MON
PM

Paper Numbers

Oral Presentation

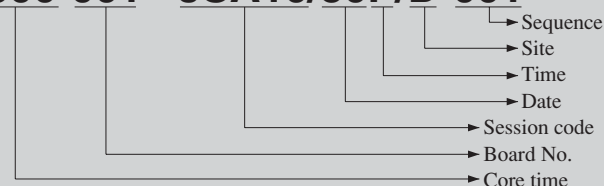
0830 JSV03/30A/A01-001



Example: 0830 JSV03/30A/A01-001 = Presentation begins at 8:30, JSV03, June 30, presentation in the morning (AM), Site A, Room 1, first paper in that session

Poster Presentation

1600-001 JSA10/30P/D-001



Example: 1600-001 JSA10/30P/D-001 = Core time begins at 16:00, Poster Board No.: 001, JSA10, June 30, core time in the afternoon (PM), Site D, first paper in that session

Tuesday, July 1 AM



UNION LECTURE FOR U1 Tuesday, July 1 AM

FROM WEATHER PREDICTION TO GLOBAL CHANGE PROJECTION

Location: Site D, Room 32

0800 UL1/01A/D32-001
FROM WEATHER PREDICTION TO GLOBAL CHANGE PROJECTION
Taroh MATSUNO

U1 Tuesday, July 1 AM

FORECASTING, PREDICTION AND PREDICTABILITY

Location: Site D, Room 32

Conveners: H. Davies, P. Hubert

0900 U1/01A/D32-001 Invited
EARTHQUAKE PREDICTION AND FORECASTING
David D. JACKSON

0930 U1/01A/D32-002 Invited
PREDICTION OF FLOODS: NEW CHALLENGES AND OPPORTUNITIES
Murugesu SIVAPALAN

1000 U1/01A/D32-003 Invited
PREDICTING VOLCANIC ERUPTIONS
Stephen Robert SPARKS

1030 BREAK

1100 U1/01A/D32-004 Invited
THE STRAITS OF OCEAN PREDICTABILITY
Peter H. STONE

1130 U1/01A/D32-005 Invited
CHAOS, MULTIFRACTALS, PREDICTABILITY AND PREDICTION SKILLS IN GEOPHYSICS
Daniel J.M. SCHERTZER, Shaun LOVEJOY



JSA03 Tuesday, July 1 AM

EQUATORIAL MIDDLE ATMOSPHERE-THERMOSPHERE-IONOSPHERE DYNAMICS AND ENERGETICS (IAGA, IAMAS, SCOSTEP)

Location: Site A, Room 5

Presiding Chairs: R.A. Heelis, S. Fukao

0900 JSA03/01A/A05-001
COHERENT RADAR OBSERVATIONS OF EQUATORIAL SPREAD F IRREGULARITIES IN THE WEST PACIFIC
Shoichiro FUKAO

0925 JSA03/01A/A05-002
ROCSAT-1 RESULTS ON EQUATORIAL ELECTRIC FIELD AND PLASMA IRREGULARITIES
Huey-Ching YEH, S.-Y. SU, R.A. HEELIS, C.-K. CHAO, J.-M. WU, C.-H. HUANG, C.-C. FU

0950 JSA03/01A/A05-003
A COMPARISON BETWEEN PRE- AND POST-MIDNIGHT ESF BUBBLES AT STORM TIME AND QUIET TIME
Kang-Ying CHEN, S.Y. SU, H.C. YEH, C.H. LIU

1010 BREAK

1030 JSA03/01A/A05-004
LARGE- AND SMALL-SCALE VARIATIONS IN THE TOPSIDE IONOSPHERIC PLASMA SEEN BY DMSP SATELLITES
Roderick A. HEELIS

1055 JSA03/01A/A05-005
EQUATORIAL IONOSPHERIC ELECTRODYNAMICS DEDUCED FROM TOPSIDE ELECTRON DENSITY
Takashi MARUYAMA

1120 JSA03/01A/A05-006
NUMERICAL SIMULATION OF EQUATORIAL SPREAD-F:DEPENDENCE OF BACKGROUND THERMOSPHERE-IONOSPHERE CONDITIONS
Ramanathan SEKAR

1145 JSA03/01A/A05-007
IN SITU AND OPTICAL INVESTIGATIONS OF ESF
H.S S. SINHA, P.K. RAJESH, Shikha RAIZADA, R.N. MISRA, N. DUTT, M.B. DADHANIA, S.B. BANERJEE

1210 JSA03/01A/A05-008
ELECTRON TEMPERATURE ENHANCEMENT ASSOCIATED WITH EQUATORIAL PLASMA BUBBLES – SOME NEW OBSERVATIONS
Polinaya MURALIKRISHNA

JSM01 Tuesday, July 1 AM

TOWARD HIGH RESOLUTION CLIMATE MODELS AND EARTH SYSTEM MODELS (IAMAS, IAPSO)

Co-Sponsored by the Center for Climate System Research, University of Tokyo

Location: Site B, Room 18

Presiding Chair: M. Kimoto

0900 JSM01/01A/B18-001
SEA ICE-OCEAN COMPONENT OF THECCSR/NIES/FRSGC HIGH-RESOLUTIONMODEL FOR FUTURE CLIMATE CHANGEPROJECTION ON THE EARTH SIMULATOR
Hiroyasu HASUMI, Tatsuo SUZUKI, Hideyuki NAKANO

0915 JSM01/01A/B18-002
A COMPARISON OF MIXED LAYER DEPTH FROM EDDY-PERMITTING AND EDDY-RESOLVING POP MODELS
Prasad G. THOPPIL, Julie L. MCCLEAN

0930 JSM01/01A/B18-003
ROLE OF SALT TRANSPORT THROUGH NORTHERN HIGH-LATITUDE NARROW PASSAGES AND SEA SURFACE FRESHWATER FORCING IN THE FORMATION OF THE ATLANTIC DEEP CIRCULATION
Akira OKA, Hiroyasu HASUMI

0945 JSM01/01A/B18-004
INDONESIAN THROUGHFLOW IN A COUPLED GCM AND ITS INTERANNUAL VARIABILITY RELATED TO ENSO AND IOD
Wei LI, Zhaoxin LI, Hailong LIU

P.90 IUFG2003

1000 JSM01/01A/B18-005
THE EVALUATION OF THE SUPER HIGH-RESOLUTION GLOBAL OCEAN MODEL FOR THE NORTHWESTERN PACIFIC OCEAN
Dong-Hoon KIM, Norikazu NAKASHIKI, Yoshikatsu YOSHIDA, Takaki TSUBONO, Frank O. BRYAN, Richard D. SMITH, Mathew E. MALTRUD, Matthew W. HECHT, Julie L. MCCLEAN

1015 JSM01/01A/B18-006
THE SIMULATION OF INDONESIAN THROUGHFLOW IN A HIGH RESOLUTION OCEANIC GCM
Hailong LIU, Xuehong ZHANG, Wei LI, Yongqiang YU

1030 BREAK

1100 JSM01/01A/B18-007
HOW WELL IS OUR EDDY-RESOLVING SIMULATION OF THE WORLD OCEAN
Hideharu SASAKI, Takashi KAGIMOTO, Yukio MASUMOTO, Nobumasa KOMORI, Keiko TAKAHASHI, Akio ISHIDA, Yoshikazu SASAI, Hirohumi SAKUMA, Toshio YAMAGATA, Tetsuya SATO

1115 JSM01/01A/B18-008
OPTIMIZATION AND PERFORMANCE OF NCAR CCM3 AND LANL POP MODELS ON THE EARTH SIMULATOR
Yoshikatsu YOSHIDA, Hideyuki KITABATA

1130 JSM01/01A/B18-009
A PARALLEL OGCM ON A CUBIC GRID FOR THE EARTH SIMULATOR
Motohiko TSUGAWA, Yukio TANAKA, Yuichi MIMURA, Masahide SAKASHITA

JSM08 Tuesday, July 1 AM

ENERGETICS AND CIRCULATION OF THE MLT REGION AND ITS COUPLING WITH CIRCULATION AND CHEMISTRY OF THE THERMOSPHERE AND STRATOSPHERE (IAMAS [ICMA, ICACGP], IAGA)
Location: Site C, Room 31

Presiding Chair: T. Nakamura

0930 JSM08/01A/C31-001 Invited
OBSERVATIONS OF THE OH MEINEL BANDS IN THE DAYGLOW: WHAT WE CAN LEARN ABOUT THE VERTICAL DISTRIBUTION OF ATOMIC HYDROGEN IN THE MESOSPHERE
Douglas A. DEGENSTEIN, Edward J. LLEWELLYN, Nicholas D. LLOYD, Adam E. BOURASSA, J. Truitt WIENSZ, Richard L. GATTINGER

1005 JSM08/01A/C31-002 Invited
DYNAMICAL SIGNATURES IN THE EQUATORIAL AIRGLOW EMISSIONS AND MINOR CONSTITUENTS IN THE MLT REGION
Hisao TAKAHASHI, L.M. LIMA, R.A. BURITI, D. GOBBI, T. NAKAMURA

1100 JSM08/01A/C31-003 Invited
MEAN WINDS, TIDES AND PLANETARY WAVES OVER ASCENSION ISLAND (8S, 14W) IN 2002
Nicholas John MITCHELL, Peter Thomas YOUNGER, Dora PANCHEVA

1135 JSM08/01A/C31-004 Invited
A REVIEW ON IN-SITU MEASUREMENTS OF TURBULENCE AT POLAR LATITUDES
Franz-Josef LUEBKEN, Markus RAPP, Boris STRELNIKOV, Arno MUELLEMANN

JSM09 Tuesday, July 1 AM

INTENSE VORTICES FROM THE SMALL SCALE TO THE PLANETARY SCALE (IAMAS [ICDM], IAPSO)
Location: Site C, Room 29

Presiding Chair: P. Reasor

TROPICAL CYCLONES AIR-SEA INTERACTION

0900 JSM09/01A/C29-001
HURRICANE SUPERINTENSITY
John PERSING, Michael T. MONTGOMERY

0925 JSM09/01A/C29-002
SEA-AIR TRANSFER IN TROPICAL CYCLONES
Kerry EMANUEL, Moshe ALAMARO

0950 JSM09/01A/C29-003
UPPER OCEAN EFFECTS ON TROPICAL CYCLONE INTENSITY VARIATIONS
Lynn K. SHAY

1015 JSM09/01A/C29-004
EFFECTS OF SURFACE WAVES ON AIR-SEA MOMENTUM FLUXES IN A COUPLED TROPICAL CYCLONE-WAVE-OCEAN MODEL
Isaac GINIS

1040 DISCUSSION

1050 BREAK

TROPICAL CYCLONES REALITY-BASED NUMERICAL SIMULATIONS

1110 JSM09/01A/C29-005
NUMERICAL EXPERIMENTS WITH HIGH RESOLUTION DATA ASSIMILATION AND FORECASTING OF TROPICAL CYCLONE FORMATION
Noel Edward DAVIDSON

1135 JSM09/01A/C29-006
STRUCTURE CHANGE OF A TROPICAL CYCLONE: A NUMERICAL STUDY USING A 10KM-RESOLUTION AGCM ON THE EARTH SIMULATOR
Yoshio KURIHARA, Mayumi YOSHIOKA, Wataru OHFUCHI

1155 JSM09/01A/C29-007
AXI-ASYMMETRIC STRUCTURE OF TYPHOON-12 IN 2000 --- RADAR ECHO ANALYSIS AND MM5 SIMULATION ---
Shigeo YODEN, Takuya YAO, Taiichi HAYASHI, Yoshinobu SAI, Kazuo KAKIHANA, Tomekichi SHIMOJI

JSM13 Tuesday, July 1 AM

DATA ASSIMILATION FOR ATMOSPHERIC AND OCEANIC PROCESSES (IAMAS [ICDM, ICCP], IAHS, IAPSO, IAGA, IAG, SPARC)
Location: Site C, Room 28

Presiding Chairs: R. Swinbank, B. Khattatov

SATELLITE DATA

0905 JSM13/01A/C28-001 Invited
SATELLITE DATA ASSIMILATION AT ECMWF
Peter BAUER, Jean-Noel THEPAUT, Jean-Francois MAHFOUF, Virginie MARECAL, Frederic CHEVALLIER, Philippe LOPEZ, Emmanuel MOREAU, Graeme KELLY, Anthony MCNALLY, Christina KOEPKEN, Antje DETHOF

0935 JSM13/01A/C28-002 Invited
SATELLITE DATA ASSIMILATION IN NUMERICAL WEATHER PREDICTION MODELS: CURRENT STATUS AND FUTURE CHALLENGES
Marie C. COLTON, Fuzhong WENG

1005 JSM13/01A/C28-003
DATA ASSIMILATION FOR ESA'S CURRENT AND FUTURE ATMOSPHERIC SATELLITE MISSIONS
Tobias G. WEHR

1025 BREAK

DATA ASSIMILATION THEORY

1045 JSM13/01A/C28-004 Invited
CONTINUUM VERSUS DISCRETE ASPECTS OF DATA ASSIMILATION
Stephen E. COHN

1115 JSM13/01A/C28-005
KALMAN FILTER DATA ASSIMILATION AND BALANCED DYNAMICS
Lisa J. NEEF, Theodore G. SHEPHERD, Saroja M. POLAVARAPU

1135 JSM13/01A/C28-006
ERROR GROWTH AND PROPAGATION: IMPLICATIONS FOR ADAPTIVE OBSERVATIONS
Hyun Mee KIM

1155 JSM13/01A/C28-007 Invited
A POSTERIORI EVALUATION AND VALIDATION OF ASSIMILATION ALGORITHMS
Olivier TALAGRAND, Prashant GOSWAMI

JSM18 Tuesday, July 1 AM

MEASUREMENT AND DISTRIBUTION OF PRECIPITATION (IAMAS [ICCP, IPCM], IAHS)
Location: Site B, Room 20

Presiding Chair: A. Seed

0930 JSM18/01A/B20-001 Invited
MULTIFRACTAL MODELS AND THE CHALLENGE OF PRECIPITATION DATA FUSION
Daniel J.M. SCHERTZER, Shaun LOVEJOY

1000 JSM18/01A/B20-002 Invited
MULTIFRACTAL SPACE-TIME DISTRIBUTION OF RAIN DROPS, AS DETERMINED FROM DIGITAL IMAGERY, AND ITS EFFECTS ON POLLUTANT PARTICLE SCAVENGING
Alin A. CÂRSTEANU, Jorge J. CASTRO

1030 BREAK

WEEK A
TUE
AM

- 1045 JSM18/01A/B20-003**
MULTIFRACTAL ANALYSIS OF THE OSP MEASURED RAIN RATES OVER TIME SCALES FROM MILLISECOND TO A DAY
I. TCHIGUIRINSKAIA, C. SALLES, P. HUBERT, D. SCHERTZER, S. LOVEJOY, J.D. CREUTIN, H. BENDJOU DI
- 1100 JSM18/01A/B20-004**
DESAGREGATION MULTIFRACTALE DES CHAMPS DE PLUIE
Angelbert Chabi BIAOU, Pierre HUBERT, Daniel SCHERTZER, Frederic HENDRICKX, Ioulia TCHIGUIRINSKAIA
- 1115 JSM18/01A/B20-005**
ANISOTROPIC SPACE-TIME MULTIFRACTAL MODELS OF RAIN AND MULTIFRACTAL OBSERVERS PROBLEMS
Shaun M. LOVEJOY
- 1130 JSM18/01A/B20-006**
SMALL SCALE INHOMOGENEITY OF RAIN TO THE ERROR OF RAIN RATE ESTIMATION OF GROUND-BASED AND SPACE-BORNE RADAR
Jinli LIU, Ling ZHANG, Daren LU
- 1145 JSM18/01A/B20-007**
ON THE APPLICATION OF RADAR PROFILERS FOR THE DETERMINATION OF SPACE-TIME VARIABILITY OF PRECIPITATIONPARAMETERS IN PRECIPITATING CLOUD SYSTEMS
Kenneth S. GAGE, Christopher R. WILLIAMS

JWM01 Tuesday, July 1 AM

WATER AND ENERGY BUDGET WORKSHOP (IAMAS, IAHS)
Location: Site C, Room 24

Presiding Chairs: R. Stewart, J. Roads

- 0945 JWM01/01A/C24-001**
INTRODUCING THE LATERAL SURFACE FLOW INTO A LAND SURFACE SCHEME
Toshio KOIKE, Petra KOUDELOVA
- 1000 JWM01/01A/C24-002**
FIVE-YEAR SURFACE OBSERVATION OF RADIATION AT MANDALGOVI, MONGOLIA
Itaru OKADA, Tamio TAKAMURA, Shin'ich KANETA, Yoshiaki HONDA, Yukari NTAKAYABU, Teruyuki NAKAJIMA
- 1015 JWM01/01A/C24-003**
LAND-SURFACE EVOLUTION FORCED BY PREDICTED PRECIPITATION CORRECTED BY HIGH-FREQUENCY RADAR/SATELLITE ASSIMILATION - THE RUC COUPLED DATA ASSIMILATION SYSTEM (CDAS)
Tatiana SMIRNOVA, Stan BENJAMIN, John M. BROWN, Dongsoo KIM
- 1030 JWM01/01A/C24-004**
STRUCTURE ANALYSIS OF HYDROLOGICAL CYCLE SYSYTEM OF ZHALONG WETLAND(CHINA)
Daqing LIU, Shiguo XU, Jinxiang LI
- 1045 JWM01/01A/C24-005**
ANALYSIS OF HYDROLOGIC PROCESSES IN REGIONAL CLIMATE SIMULATIONS
Raymond W. ARMITT

1100 BREAK

- 1130 JWM01/01A/C24-006**
TROPOSPHERIC WARMING AND SURFACE COOLING
Beate Gertrud LIEPERT, Johann FEICHTER
- 1145 JWM01/01A/C24-007**
AN EXTRATERRESTRIAL HYDROLOGICAL CYCLE: WHAT CAN TITAN TELL US ABOUT FLUXES AND THE CONTROL OF HUMIDITY
Ralph D. LORENZ

JSP01 Tuesday, July 1 AM

THE DECADAL TO CENTENNIAL VARIABILITY OF THE OCEAN AND ATMOSPHERE (IAPSO, IAMAS, CLIVAR)
Location: Site B, Room 21

Presiding Chairs: R. Wood, Y. Tanimoto

- 0900 JSP01/01A/B21-001**
RECENT CHANGES IN THE NORTH ATLANTIC
Robert Royds DICKSON, Ruth CURRY, Igor YASHAYAEV
- 0930 JSP01/01A/B21-002**
TRANSIENT DYNAMICS OF A NORTH ATLANTICFRESHWATER PULSE
Andrew B.G. BUSH

- 0950 JSP01/01A/B21-003**
PROPAGATION OF MERIDIONAL OVERTURNING CIRCULATION ANOMALIES IN THE ATLANTIC: THEORY AND A MONITORING ARRAY
David P. MARSHALL, Helen L. JOHNSON, Chris W. HUGHES, Richard G. WILLIAMS

- 1010 JSP01/01A/B21-004**
CENTENNIAL OSCILLATION OF THE ATLANTIC MERIDIONAL OVERTURNINGCIRCULATION AND MULTI-DECADAL AIR-SEA INTERACTION IN HADCM3
Michael VELLINGA

- 1030 JSP01/01A/B21-005**
THE ATLANTIC MULTIDECADAL OSCILLATION AND THE THERMOHALINECIRCULATION: A GLOBAL-SCALE OCEAN-ATMOSPHERE MODE SIMULATED IN A 1400 YEAR COUPLED MODEL CALCULATION
Jeff R. KNIGHT, Robert J. ALLAN, Chris K. FOLLAND, Michael VELLINGA, Michael E. MANN

1050 BREAK

- 1110 JSP01/01A/B21-006**
DECADAL TO CENTENNIAL VARIATIONS IN SIMULATIONS OF A COUPLED GCM
Aiguo DAI, W.M. WASHINGTON, G.A. MEEHL, A. HU, T.W. BETTGE, W.G. STRAND

- 1130 JSP01/01A/B21-007**
WATER MASS VARIABILITY IN THE HADLEY CENTRE COUPLED MODEL
Keith HAINES, Chris OLD

- 1150 JSP01/01A/B21-008**
THE RELATIONSHIP BETWEEN THE NORTHERN HEMISPHERE SEA-ICE REDUCTION TREND AND THE QUASI-DECADALARCTIC SEA-ICE OSCILLATION
Jia WANG, Moto IKEDA, Rudiger GERDES

- 1210 JSP01/01A/B21-009**
LABORATORY MODELLING OF OSCILLATORY BEHAVIOUR OF A POLAR HALOCLINE
Julia C. MULLARNEY, Ross W. GRIFFITHS, Graham O. HUGHES

JSS01 Tuesday, July 1 AM

HAGIWARA SYMPOSIUM ON MONITORING AND MODELING OF EARTHQUAKE AND VOLCANIC PROCESSES FOR PREDICTION (IASPEI, IAVCEI, IAG, IAGA)
Co-Sponsored by the National Research Institute for Earth Science and Disaster Prevention
Location: Site A, Room 3

Presiding Chair: A. Hasegawa

- 0905 JSS01/01A/A03-001**
EMPIRICAL PREDICTION MODEL FOR VOLCANIC ERUPTION AT SAKURAJIMA, JAPAN
Kazuhiro ISHIHARA
- 0930 JSS01/01A/A03-002**
UNCERTAINTY ON PREDICTING MERAPI VOLCANO ACTIVITY; CASE OF 2001 ERUPTION
Antonius RATDOMOPURBO, Michel DIAMENT, Francois BEAUDUCEL, Jacques ZLOTNICKI, Made Agung
- 0955 JSS01/01A/A03-003**
A NEW VIEW OF PRECURSORY PHENOMENA FOR VOLCANIC ERUPTIONS AND EARTHQUAKE OCCURRENCES
Keiiti AKI
- 1020 JSS01/01A/A03-004**
ON THE SHORT-TERM EARTHQUAKE PREDICTION BASED ON EVOLUTION OF SEISMICITY: THEORY; SCALING; APPLICATION TO 27 LARGE EARTHQUAKES IN JAPAN AND CALIFORNIA
Vladimir KEILIS-BOROK, Peter SHEBALIN, Seiya UYEDA, Toshiyasu NAGAO, Ilya ZALIAPIN

1045 BREAK

- 1115 JSS01/01A/A03-005**
PROGRESS OF SHORT-TERM EARTHQUAKE PREDICTION STUDY BY USING ELECRTOMAGNETIC PHENOMENA
Toshiyasu NAGAO
- 1140 JSS01/01A/A03-006**
TWO GRAVE ISSUES CONCERNING THE EXPECTED TOKAI EARTHQUAKES
Kiyoo MOGI

1205 JSS01/01A/A03-007
SEISMOTECTONIC MODELING OF THE REPEATING M7-CLASS DISASTROUS EARTHQUAKES NEAR ODAWARA, CENTRAL JAPAN, FOR PREDICTION-TARGET SETTING
Katsuhiko ISHIBASHI

JSS02 Tuesday, July 1 AM
RECENT DESTRUCTIVE EARTHQUAKES (IASPEI, IAG)
Location: Site A, Room 6

Convener: H. Gupta
Presiding Chair: H. Gupta

0900 JSS02/01A/A06-001
ELECTRICAL CONDUCTIVITY AND AFTERSHOCK ACTIVITY IN SEISMICALLY ACTIVE REGIONS
Harinarayana T. TIRUMALACHETTY, Kareemunnisa Shaik BEGUM

0920 JSS02/01A/A06-002
GEODETIC & GEOPHYSICAL STUDIES FOR MONITORING CRUSTAL DEFORMATION IN KUCHCHH REGION OF GUJARAT
Nagarajan BALASUBRAMANIAN, GD GUPTA, SK SINGH

0940 JSS02/01A/A06-003
TECTONICS RELATED TO BHUJ EARTHQUAKE OF JANUARY 26, 2001 IN KUTCH, INDIA: AN INSIGHT FROM GRAVITY, ISOSTATIC AND MAGNETIC STUDIES
D.V. CHANDRASEKHAR, D.C. MISHRA, B. SINGH

1000 JSS02/01A/A06-004
SOURCE MODEL FOR THE 2002 DENALI FAULT (ALASKA) EARTHQUAKES FROM INSAR AND CONTINUOUS GPS MEASUREMENTS
Tim J. WRIGHT, Zhong LU, Charles W. WICKS, Wayne THATCHER

1020 JSS02/01A/A06-005
GRAVITATIONALLY INDUCED STRESS PUMPING IN CENTRAL INDIA: INFERENCE FROM TELESEISMIC DEPTH SOUNDING
T. Vijay KUMAR, S.S. RAI

1040 BREAK

1100 JSS02/01A/A06-006
MULTIFRACTAL AND WAVELET APPROACH TO STUDY THE AFTERSHOCK SEQUENCE OF BHUJ EARTHQUAKE, INDIA
Vijay Prasad DIMRI

1120 JSS02/01A/A06-007
THE INTRAPLATE EARTHQUAKES AND RELATED PROCESSES IN THE INDIAN SHIELD
Vijay K. RAO

1140 JSS02/01A/A06-008
TECTONIC LOADING OF THE PALAEOSUTURES/ACCRETIONARY CORRIDORS AND SOME MAJOR STABLE CONTINENTAL REGION EARTHQUAKES
Veeraswamy KOPPIREDDI, Upendra RAVAL

1200 JSS02/01A/A06-009
THE GROUND-COUPLED AIR WAVES GENERATED BY DESTRUCTIVE EARTHQUAKES: AN EXAMPLE OF DIRECT SIMULATION AND A RAPID CONSTRAINT ON SEISMIC SOURCE
Jocelyn GUILBERT, Alexis LEPICHON, Benoit ALCOVERRO, Martin VALLEE, M. ULZIBAT

1220 JSS02/01A/A06-010
CASCADING SEISMIC ACTIVITY AT THE APPROACH AND AFTER THE MOST RECENT GREAT EARTHQUAKES
Leontina L. ROMASHKOVA, Anastassia K. NEKRASOVA, Vladimir G. KOSSOBOKOV

JSV02 Tuesday, July 1 AM
VOLCANISM AND THE EARTH'S ATMOSPHERE (IAVCEI, IAMAS)
Location: Site A, Room 2

Presiding Chairs: A. Robock, S. Self

0900 JSV02/01A/A02-001 Invited
NEAR-SOURCE CHEMISTRY OF VOLCANIC PLUMES
Clive OPPENHEIMER, Tamsin MATHER, Peter BAXTER, Andrew MCGONIGLE, Andrew ALLEN, David PYLE, Roy HARRISON

0925 JSV02/01A/A02-002 Invited
VOLCANISM AND ATMOSPHERIC CHEMISTRY
Hans F. GRAF

0950 JSV02/01A/A02-003
ETNA'S IMPACT ON THE REGIONAL ATMOSPHERIC ENVIRONMENT: SULFUR AND HALOGENS
Alessandro AIUPPA, Sergio BELLOMO, Walter D'ALESSANDRO, Mariano VALENZA

1010 JSV02/01A/A02-004
THE INTERACTION BETWEEN VOLCANIC ERUPTION CLOUD AND THE PHASE CHANGE OF WATER: A NUMERICAL STUDY
Fumihiko MIZUTANI, Kensuke NAKAJIMA, Kazuhisa TSUBOKI, Taro SHINODA

1030 BREAK

1100 JSV02/01A/A02-005
COMPARATIVE STUDIES OF VOLCANIC CLOUDS AND GAS AT SAKURAJIMA AND MIYAKEJIMA
Kisei KINOSHITA, Chikara KANAGAKI, Megumi KOYAMADA, Andrew TUPPER, Kazuhiko GOTO, Naoko IINO, Akihiko TERADA, Ko-ichi HIDAKA

1120 JSV02/01A/A02-006 Invited
SULPHUR RELEASE FROM HOLOCENE FLOOD LAVA ERUPTIONS IN ICELAND
Thorvaldur THORDARSON

1145 JSV02/01A/A02-007
INFLUENCE OF THE WATER VAPOUR RELEASED THROUGH THE SUMMIT CRATERS ON RAINWATER ISOTOPIC COMPOSITION OF MOUNT ETNA AREA
Walter D'ALESSANDRO, Rocco FAVARA, Cinzia FEDERICO, Manfredi LONGO, Francesco PARELLO

JSV03 Tuesday, July 1 AM
FLOOD BASALT VOLCANISM (IAVCEI, IASPEI)
Location: Site A, Room 1

Presiding Chairs: M. Menzies, S. Holbrook

SILICIC VOLCANISM & FLOOD BASALTS

0930 JSV03/01A/A01-001
EXTENSIVE FELSIC LAVAS IN LARGE IGNEOUS PROVINCES
Jocelyn MCPHIE, Sharon ALLEN, Carol SIMPSON

0950 JSV03/01A/A01-002
TIMING, CHARACTER AND PETROGENESIS OF SILICIC FLOOD VOLCANISM IN CFBP AND AT VOLCANIC RIFTED MARGINS
Scott E. BRYAN, Dougal A. JERRAM, Teal R. RILEY, Phil T. LEAT, Christopher J.STEPHENS

1010 JSV03/01A/A01-003
BASALTIC EXPLOSIVE ERUPTIONS IN THE FERRAR LIP
Pierre-Simon ROSS, James D.L. WHITE

1030 JSV03/01A/A01-004
THE ROLE OF SILICIC VOLCANISM IN THE FORMATION OF LIPS
Michael ABRATIS, Lothar VIERECK-GOETTE, Jan HERTOGEN, RolfBirger PEDERSEN

1050 BREAK

1120 JSV03/01A/A01-005
GENESIS OF PERALKALINE ACID MAGMATISM IN CONTINENTAL RIFTS: A PETROLOGICAL, GEOCHEMICAL AND ISOTOPIC STUDY OF THE GEDEMSEA VOLCANO, ETHIOPIA
Angelo PECCERILLO, Maria Rosaria BARBERIO, Gezahegn YIRGU, Dereje AYALEW, Mario BARBIERI, Tsai Wan WU

1140 JSV03/01A/A01-006
CORRELATION OF INDIAN OCEAN TEPHRA TO INDIVIDUAL SILICIC ERUPTIONS FROM AFRO-ARABIAN OLIGOCENE FLOOD VOLCANISM
Ingrid Anne UKSTINS PEATE, Joel A. BAKER, Martin A. MENZIES



GAI.02 Tuesday, July 1 AM
NATURAL MAGNETIC MINERALS: MAGNETIC PROPERTIES, CHEMISTRY AND EVOLUTION
Location: Site A, Room 16

Convener: E. Petrovsky
Co-Conveners: A. Hirt, A.B. Housen
Presiding Chairs: E. Petrovsky, A. Hirt

0900 GAI.02/01A/A16-001
IDENTIFICATION OF SCHWERTMANNITE IN SOILS AND SEDIMENTS USING MAGNETIC METHODS
Ann M. HIRT, Eva SCHILL, Thomas FRIEDRICHS, Wendy GAGLIANO, Jerry BIGHAM

WEEK
A
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- 0920 GAI.02/01A/A16-002**
MAGNETIC AND MINERALOGIC STUDY OF MANZALA LAKE BOTTOM SEDIMENTS: A PRELIMINARY ENVIRONMENTAL INVESTIGATION
Hatem H. ODAH, Elkhedr H. IBRAHIM, Naser L. EL AGAMI
- 0940 GAI.02/01A/A16-003**
ORIGIN OF SECONDARY MAGNETITE IN ROCKS AND PROBLEM OF REMAGNETIZATION
Nguyen Thi Kim THOA
- 1000 GAI.02/01A/A16-004**
LOW-FIELD VARIATION OF THE ANISOTROPY OF MAGNETIC SUSCEPTIBILITY OF HEMATITE SINGLE CRYSTALS FROM SAO JULIAO QUARRY, MINAS GERAIS, BRAZIL
Frantisek HROUDA, Jiri POKORNY, Horst QUADE
- 1020 GAI.02/01A/A16-005**
SPORADIC TRANSFORMATION OF HEMATITE TO MAGHEMITE AS POSSIBLE CAUSE OF PARTIAL AND THE FULL SELF-REVERSAL OF THE NATURAL REMANENT MAGNETIZATION IN RED BEDS
Yury Semenovich RZHEVSKY

1040 BREAK

- 1100 GAI.02/01A/A16-006**
INTEGRATED STUDIES ON SINGLE PARTICLES FROM POLLUTED RIVER SEDIMENTS-AN EVIDENCE FOR NON-APPLICABILITY OF THE MAGNETIC GRAIN SIZE PARAMETERS TO ANTHROPOGENIC PHASES
Diana V. JORDANOVA, Viktor HOFFMANN, Thomas FEHR
- 1130 GAI.02/01A/A16-007**
THE ANTHROPOGENIC DUST LOAD OF CONIFEROUS TREE NEEDLES IN THE BLACK FOREST-AREA, SW GERMANY: AN APPROACH USING MAGNETIC SUSCEPTIBILITY (MS)
Knab MATHIS, Erwin APPEL, Viktor HOFFMANN
- 1150 GAI.02/01A/A16-008**
LARGE SCALE MAGNETIC SCREENING FOR OUTLINING ENVIRONMENTAL POLLUTION
Erwin APPEL, Viktor HOFFMANN, Vladimir KALINSKI, Wolfgang ROESLER, Lorene SCHIBLER, Claudette SPITERI, MAGPROX TEAM
- 1210 GAI.02/01A/A16-009**
DIFFERENCES IN MAGNETIC PARAMETERS IN VARIOUS DEPTHS OF SOILS WITH DIFFERENT LITHOGENIC/ANTHROPOGENIC CONTRIBUTIONS
Hana FIALOVA, Ales KAPICKA, Eduard PETROVSKY
- 1230 GAI.02/01A/A16-010**
VERTICAL PROFILES OF MAGNETIC SUSCEPTIBILITY – EXAMPLES OF IN-SITU MEASUREMENTS
Eduard PETROVSKY, Zdenek HULKA, Ales KAPICKA

GAI.04-Posters Tuesday, July 1 AM

METHODS AND APPROACHES IN PALEOMAGNETISM (POSTER SESSION)
Location: Site D

Convener: H. Boehnel
Co-Conveners: M. Hill, P. Schmidt
Presiding Chairs: H. Boehnel, M. Hill, P. Schmidt

- 0830-083 GAI.04/01A/D-001 Poster**
ROTATION OF MICHOCAN BLOCK (TRANS-MEXICAN VOLCANIC BELT) SINCE LATE MIOCENE: PALEOMAGNETIC CONSTRAINTS
Avto GOGICHAISHVILI, Jose ROSAS-ELGUERA, Pierre CAMPS, Luis ALVA-VALDIVIA, Jaime URRUTIA-FUCUGAUCHI, Victor ROMERO-BENITEZ
- 0830-084 GAI.04/01A/D-002 Poster**
PALEOMAGNETIC STUDY OF A LONG SEQUENCE OF LAVAS RECORDED ON THE ISLAND OF LANAI, HAWAII, USA
Emilio HERRERO-BERVERA, Jean-Pierre VALET, Jose MANGAS-VINUELA
- 0830-085 GAI.04/01A/D-003 Poster**
PALEOINTENSITY STUDY OF THE OSHIMA 1986 LAVA: IMPLICATION FOR THE RELIABILITY OF THE THELLIER METHOD WITH RESPECT TO OXIDATION STATES OF MAGNETIC MINERALS
Nobutatsu MOCHIZUKI, Hideo TSUNAKAWA, Yusuke OISHI, Shinya WAKAI, Ken-ichi WAKABAYASHI, Yuhji YAMAMOTO
- 0830-086 GAI.04/01A/D-004 Poster**
MICROWAVE PALAEOINTENSITY METHODS FOR USE WITH LAVA
Mimi J. HILL, Martin N. GRATTON, John SHAW
- 0830-087 GAI.04/01A/D-005 Poster**
A SYSTEM FOR PERFORMING MICROWAVE DEMAGNETISATION AND REMAGNETISATION
John A. SHARE, John SHAW

- 0830-088 GAI.04/01A/D-006 Poster**
RETRIEVING GEOMAGNETIC SECULAR VARIATION FROM MOUNT ETNA, SICILY USING THE MICROWAVE PALAEOINTENSITY TECHNIQUE: PRELIMINARY RESULTS
Mimi J. HILL, Alberto INCORONATO
- 0830-089 GAI.04/01A/D-007 Poster**
A COMPARITIVE STUDY OF MICROWAVE ANDTHELLIER PALAEOINTENSITIES FROMMATAHEWAN, BISCOTASING, MARATHON ANDKEWEENAWAN DYKES OF THE CANADIANSHIELD - IMPLICATIONS FOR COREDEVELOPMENT
Nick MCARDLE, Henry HALLS, Geert STRIK, John SHAW
- 0830-090 GAI.04/01A/D-008 Poster**
THE ORIGIN OF MAGNETC MINERALS AND THEIR CHANGES IN LAKE NAKAUMI AND LAKE SHINNJI, JAPAN
Takaharu SATO, Yuji HAMAMOTO, Makio OHKAWA, Koji SETO, Minoru FUNAKI, Masaya ENDO

- 0830-091 GAI.04/01A/D-009 Poster**
ROCK MAGNETIC STUDY OF HOLOCENE MARINE SEDIMENTS FROM THE OKHOTSK SEA: (1) TWO CORE SEDIMENTS RECOVERD NEAR THE KITAMIYAMATI BANK, OFF NORTHEAST HOKKAIDO, JAPAN
Noriko KAWAMURA, Ken IKEHARA, Hirokuni ODA, Masayuki TORII

- 0830-092 GAI.04/01A/D-010 Poster**
ROCK MAGNETIC STUDY OF HOLOCENE MARINE SEDIMENTS FROM THE OKHOTSK SEA: (2) DIAGENETICALLY DEGRADED LOWER PART OF SEDIMENT CORE
Masayuki TORII, Noriko KAWAMURA, Hirokuni ODA, Ken IKEHARA

- 0830-093 GAI.04/01A/D-011 Poster**
ROCK MAGNETIC EVIDENCE OF OCEANOGRAPHIC CHANGE IN THE NORTHWESTERN PACIFIC SINCE THE LAST GLACIAL
Toshiaki MISHIMA, Toshiya KANAMATSU, Masao UCHIDA, Naokazu AHAGON, Ken'ichi OHKUSHI

- 0830-094 GAI.04/01A/D-012 Poster**
A 2.14-MILLION-YEAR ASTRONOMICALLY TUNED RECORD OF RELATIVE GEOMAGNETIC PALEOINTENSITY FROM THE WESTERN PHILIPPINE SEA
Chong-Shern HORNG, Andrew P. ROBERTS, Wen-Tzong LIANG

- 0830-095 GAI.04/01A/D-013 Poster**
A NEW APPROACH TO PALEOMAGNETIC AND ROCK MAGNETIC STUDY OF ANTARCTIC DEEP-SEA SEDIMENTS DEPOSITED AT LOW SEDIMENTATION RATE
Haruka MATSUOKA, Takaharu SATO, Minoru FUNAKI

- 0830-096 GAI.04/01A/D-014 Poster**
MAGNETOSTRATIGRAPHY OF THE REEF LIMESTONES: A CASE STUDY IN THE RYUKYU GROUP, MIYAKOJIMA ISLAND, OKINAWA, JAPAN
Hidetoshi SHIBUYA, Chisato MATSUI, Shigeaki YAMADA, Hiroki MATSUDA

- 0830-097 GAI.04/01A/D-015 Poster**
PALEOMAGNETIC MINI-SAMPLES: ADVANTAGES, DISADVANTAGES, EQUIPMENT FOR FIELD WORK AND FIRST RESULTS
Harald BÖHNEL

- 0830-098 GAI.04/01A/D-016 Poster**
FEATURES OF THE SECULAR GEOMAGNETIC VARIATION IN THE DEEP EARTH'S MANTLE
Larisa N. YAREMENKO

- 0830-099 GAI.04/01A/D-017 Poster**
REMOTE SENSING DETERMINATION OF BOUNDARIES IN ROCKS FORMED BY PALEOMAGNETIC REVERSALS
Vil S. YAKUPOV, Sergey V. YAKUPOV, Aleksey N. KHRAMOV

- 0830-100 GAI.04/01A/D-018 Poster**
PETROMAGNETIC AND PALEOMAGNETIC INVESTIGATION IN ARMENIA
Juletta Hovhannes MINASYAN, Armen KARAKHANYAN

- 0830-101 GAI.04/01A/D-019 Poster**
SYNTHETICAL FOLD METHOD IN PALEOMAGNETISM
Eugeniy Yakovlevich SMIRNOV

GAI.05 Tuesday, July 1 AM

OBSERVATIONAL CONSTRAINTS ON FIELD BEHAVIOR: (PALEO) SECULAR VARIATION, PALEOINTENSITY, REVERSAL FREQUENCY AND AGE DATING (SEDI)
Location: Site A, Room 8

Co-Conveners: M. Dekker
Presiding Chair: E. Herrero-Bervera

- 0900 GAI.05/01A/A08-001**
PALEOSECULAR VARIATION FROM THE LATE QUATERNARY ONTAKE VOLCANO, JAPAN: DIRECTIONS AND EXCURSIONS
Hidefumi TANAKA, Takehiko KOBAYASHI

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0830-137 GAI.01/01A/D-003 Poster
PROMINENT E PARALLEL IN THE AURORAL BROADBAND ELF EMISSIONS
DETECTED BY THE CLUSTER SATELLITES
Marie Desire BACKRUD

0830-138 GAI.01/01A/D-004 Poster
AURORAL PARTICLE ACCELERATION CAUSED BY NONLINEAR
INTERACTION OF ALFVEN WAVE PACKETS
Yan SONG, Robert L. LYSAK

0830-139 GAI.01/01A/D-005 Poster
EFFECTS OF CONVERGING MAGNETIC FIELD TOPOLOGY ON ELECTRON
DYNAMICS ALONGDIPLAR MAGNETIC FIELD LINES
Peter A. DAMIANO, R.D. SYDORA, J.C. SAMSON, A.N. WRIGHT

0830-140 GAI.01/01A/D-006 Poster
AKR ACTIVITY AND STORM-TIME SUBSTORMS
Taeko SEKI, Akira MORIOKA, Yoshizumi MIYOSHI, Fuminori TSUCHIYA,
Hiroaki MISAWA, Hiroshi OYA, Hiroshi MATSUMOTO, Kozo HASHIMOTO,
Toshifumi MUKAI, Kiyofumi YUMOTO, Tsutomu NAGATSUMA

0830-141 GAI.01/01A/D-007 Poster
LABORATORY SIMULATION OF AURORAL PARTICLE ACCELERATION IN
FIELD-ALIGNED ELECTRIC FIELDS
Boris G. GAVRILOV, Roger SMITH, Dmitry SOBYANIN, Hans
STENBAEK-NIELSEN, Julius ZETZER

0830-142 GAI.01/01A/D-008 Poster
NONLOCAL COUPLING BETWEEN ION CYCLOTRON WAVES AND
IONOSPHERIC OUTFLOWS
Jay R. JOHNSON, C.Z. CHENG

0830-143 GAI.01/01A/D-009 Poster
MULTIPLE ARCS AND PC5 PULSATIONS IN THE POSTNOON SECTOR:
AN INTER-HEMISPHERIC CONJUGATE OBSERVATION
Huigen YANG, Joran MOEN, Natsuo SATO, Hongqiao HU, Ruiyuan LIU, Masayuki
KIKUCHI, Xiaoyan ZHOU, Tohru SAKURAI, Kazuo MAKITA

0830-144 GAI.01/01A/D-010 Poster
MULTIPLE ELECTRON ENERGY-TIME DISPERSIONS OBSERVED BY SS-520-2
SOUNDING ROCKET
Hiroki TANAKA, Yoshifumi SAITO, Shinichi ISHII, Kazushi ASAMURA, Toshifumi
MUKAI

0830-145 GAI.01/01A/D-011 Poster
CHARACTERISTICS OF AURORAL OII 732/733 NM EMISSION AND ITS
RELATION TO ION UPFLOW
Naoko KOIZUMI, Takeshi SAKANOI, Shoichi OKANO, Makoto TAGUCHI,
Takehiko ASO

0830-146 GAI.01/01A/D-012 Poster
SEASONAL AND SOLAR CYCLE VARIATIONS OF THE VERTICAL
DISTRIBUTION OF THE OCCURRENCE PROBABILITY OF AURORAL
KILOMETRIC RADIATION SOURCES AND UPFLOWING ION EVENTS
Atsushi KUMAMOTO, Takayuki ONO, Masahide IIZIMA, Hiroshi OYA

0830-147 GAI.01/01A/D-013 Poster
BI-STREAMING ELECTRON CONICS OBSERVED BY AKEBONO
Daisuke TSUJITA, Toshifumi MUKAI

0830-148 GAI.01/01A/D-014 Poster
HARMONIC STRUCTURE OF AURORAL KILOMETRIC RADIATION OBSERVED
BY THE AKEBONO SATELLITE
Akira HOSOTANI, Takayuki ONO, Masahide IIZIMA, Atsushi KUMAMOTO

GAI.02 Tuesday, July 1 AM

**WHAT ROLE DO WAVES PLAY IN TRANSPORT AND
ACCELERATION OF RING CURRENT AND RADIATION BELT
PARTICLES?**
Location: Site A, Room 7

Co-Convenor: M. Hudson
Presiding Chair: R.B. Horne

0930 GAI.02/01A/A07-001
CORRELATIONS BETWEEN ULF WAVE POWER, SOLAR WIND SPEED, AND
RELATIVISTICELECTRON FLUX IN THE MAGNETOSPHERE: SOLAR CYCLE
DEPENDENCE
Ian R. MANN, T. Paul O'BRIEN, David K. MILLING

0950 GAI.02/01A/A07-002 Invited
IMPACT OF RELATIVISTIC ELECTRON LOSS ON ACCELERATION
PROCESSES DURING STORMS
Richard M. THORNE

1020 GAI.02/01A/A07-003
EHNANCED RADIAL DIFFUSION DUE TO BROAD BAND ULF WAVES
Xinlin LI, Michael A. TEMERIN, Daniel N. BAKER, Geoff D. REEVES, Reiner
FRIEDEL, Davin LARSON

1040 BREAK

1100 GAI.02/01A/A07-004 Invited
DYNAMICS OF ENERGETIC ELECTRONS DURING A MAGNETIC STORM
Yoshizumi MIYOSHI, Vania K. JORDANOVA, Michelle F. THOMSEN, Geoff D.
REEVES, David S. EVANS, Akira MORIOKA

1130 GAI.02/01A/A07-005
TRANSPORT,ACCELERATION AND LOSS OF RADIATION BELT ELECTRONS
Danny SUMMERS

1150 GAI.02/01A/A07-006
MULTI-PEAK STRUCTURE OF ELECTRON RADIATION BELT SEEN IN THE
SUPER STORM
Takahiro OBARA, Yoshizumi MIYOSHI, Akira MORIOKA

1210 GAI.02/01A/A07-007
RESONANT DIFFUSION OF RADIATION BELT ELECTRONS BY WHISTLER-
MODE CHORUS
Richard Bertram HORNE, Sarah A. GLAUERT, Richard M. THORNE

GAI.12 Tuesday, July 1 AM

**HOW DOES MULTI-POINT MONITORING PROBE MULTIPLE
SPATIAL AND TEMPORAL SCALES IN THE
MAGNETOSPHERE?**
Location: Site A, Room 10

Co-Conveners: G. Paschmann, K. Kauristie, R. Greenwald, Z. Pu
Presiding Chairs: M. Dunlop, P. Escoubet

0900 GAI.12/01A/A10-001 Invited
CLUSTER: THE FOUR-SATELLITE MISSION
C. Philippe ESCOUBET, Michael FEHRINGER, Melvyn GOLDSTEIN

0925 GAI.12/01A/A10-002 Invited
CLUSTER OBSERVES THE HIGH ALTITUDE / EXTERIOR CUSP REGIONS
Benoit LAVRAUD, Malcolm W. DUNLOP, Henri REME, Jean-Michel BOSQUED,
Iannis DANDOURAS, Jean-Andre SAUVAUD, Tai D. PHAN, Rickard LUNDIN,
Matthew TAYLOR, Peter J. CARGILL, Andre BALOGH

0950 GAI.12/01A/A10-003
ENERGETIC PARTICLES OBSERVED IN THE CUSP REGION BY CLUSTER-II
Suiyan FU, Q.G. ZONG, Z.Y. PU, C.J. XIAO, P. DALY

1005 GAI.12/01A/A10-004
IMF CONTROL OF FIELD-ALIGNED CURRENT SYSTEM TOPOLOGY:
COMPARISONS OF FAST OBSERVATIONS AND MHD SIMULATIONS
Robert J. STRANGWAY, Joachim RAEDER

1020 BREAK

1040 GAI.12/01A/A10-005 Invited
CLUSTER OBSERVATIONS AT DIFFERENT SCALE-LENGTHS - WHAT CAN WE
LEARN ABOUT THE RECONNECTION PROCESS?
Christopher J. OWEN, Malcolm W. DUNLOP, Andrew N. FAZAKERLEY, Yulia
BOGDANOVA, Jean-Michel BOSQUED, Jason P. DEWHURST, Robert C. FEAR,
Andre BALOGH, Henri REME

1105 GAI.12/01A/A10-006
MULTIPLE FLUX ROPE EVENTS NEAR THE HIGH-LATITUDE
MAGNETOPOUSE OBSERVED BY CLUSTER II ON JANUARY 26, 2001
Z.Y. PU, Q.G. ZONG, T.A. FRITZ, C.J. XIAO, Z.Y. HUANG, S.Y. FU, M.W.
DUNLOP

1120 GAI.12/01A/A10-007
FTES AND MINI-FTES OBSERVED WITH CLUSTER
Stephan C. BUCHERT, Yasunobu OGAWA, Andris VAIVADS, Mats ANDRE

1135 GAI.12/01A/A10-008
MAGNETIC MIRROR GEOMETRY USING CLUSTER DATA: MODEL AND
CORRELATION TECHNIQUE
Dragos O. CONSTANTINESCU, Karl-Heinz GLASSMEIER, Rudolf TREUMANN,
Karl-Heinz FORNACON

1150 GAI.12/01A/A10-009
CLUSTER OBSERVATIONS OF WAVES ASSOCIATED WITH PLASMA CLOUDS
IN THE MAGNETOSHEATH, CORRELATED WITH WIND MEASUREMENTS IN
THE SOLAR WIND
Nicole CORNILLEAU-WEHLIN, Patrick CANU, Dominique FONTAINE, Patrick
ROBERT, Milan MAKSIMOVIC, Jean-Louis BOUGERET, Jean-Michel BOSQUED,
Mats ANDRE, Andrew FAZAKERLEY, Andre BALOGH, Pierrette M.E. DÉCRÉAU

1205 GAI.12/01A/A10-010 Invited
BIFURCATED MAGNETOTAIL CURRENT SHEETS
Wolfgang BAUMJOHANN

GAIV.01 Tuesday, July 1 AM**THE DYNAMIC SUN, ITS ATMOSPHERE AND WIND**

Location: Site A, Room 11

Presiding Chairs: J.S Almeida, O. Lie-Svendsen

0900 GAIV.01/01A/A11-001 Invited
SCATTERING POLARIZATION AND HANLE DIAGNOSTICS
Marianne Denise FAUROBERT

0930 GAIV.01/01A/A11-002 Invited
THE SOLAR CHROMOSPHERE
Han UITENBROEK

1000 GAIV.01/01A/A11-003
POLARIMETRIC IMAGING OF THE CORONA IN THE NEAR INFRARED
Shadia Rifai HABBAL, Richard WOO, Jean ARNAUD, Martina Belz ARNDT, Steve HEGWER, Judd JOHNSON

1020 BREAK

1050 GAIV.01/01A/A11-004
INTERMITTENT CORONAL HEATING DUE TO HEAT FLUX GENERATED ION CYCLOTRON WAVES
Sergei A. MARKOVSKII, Joseph V. HOLLWEG

1110 GAIV.01/01A/A11-005 Invited
MAGNETOHYDRODYNAMIC WAVES IN THE SOLAR CORONA
Valery M. NAKARIAKOV

1140 GAIV.01/01A/A11-006
MAGNETIC ACTIVITY AND KINETIC ALFVEN INSTABILITIES IN THE SOLAR ATMOSPHERE
Yuriy M. VOYTENKO, Marcel GOOSSENS

1200 GAIV.01/01A/A11-007
PRINCIPAL RESULTS OF CORONAS-F OBSERVATIONS OF THE SUN
Victor N. ORAEVSKY, I.I. SOBELMAN, Vladimir D. KUZNETSO, I.A. ZITNIK, J. SYLWESTER, E.P. MAZETS, G.E. KOCHAROV

GAV.01 Tuesday, July 1 AM**GLOBAL GEOMAGNETIC OBSERVATORY: TOWARDS A BETTER NETWORK OF GEOMAGNETIC OBSERVATIONS**

Location: Site A, Room 12

Presiding Chair: S. Macmillan

0935 GAV.01/01A/A12-001
VILLA REMEDIOS - A NEW OBSERVATORY IN SOUTH AMERICA - RESULT OF A BOLIVIAN-GERMAN-BRITISH CO-OPERATION
Hans-Joachim LINTHE, Edgar RICALDI, Pedro MIRANDA, Christopher W. TURBITT, John RIDDICK

0955 GAV.01/01A/A12-002
THE GLOBAL NETWORK OF GEOMAGNETIC OBSERVATORIES. THE ORGANISATION, DATA DISTRIBUTION AND DATA AVAILABILITY
Ole RASMUSSEN

1015 GAV.01/01A/A12-003
INTERMAGNET: ITS ROLE IN CO-ORDINATING MAGNETIC OBSERVATORY OPERATIONS WORLDWIDE
David John KERRIDGE

1035 BREAK

1100 GAV.01/01A/A12-004
DATA PROCESSING AND QUALITY CONTROL PROCEDURES FOR THE NEW BGS MAGNETIC OBSERVATORY SYSTEMS
Ellen CLARKE, Sarah J. REAY

1120 GAV.01/01A/A12-005
NEW SUSPENDED DELTA I - DELTA D (DIDD) RECORDING MAGNETOMETER FOR OBSERVATORY AND FIELD USE
Laszlo HEGYMEGI, Balazs HEILIG, Andras CSONTOS

1140 GAV.01/01A/A12-006
STRATEGY FOR THE IMPROVEMENT OF GEOMAGNETIC OBSERVATORIES QUALITY AND DISTRIBUTION
Jean L. RASSON

1200 GAV.01/01A/A12-007
SEAFLOOR GEOMAGNETIC OBSERVATORIES: THE FRENCH PROGRAM
Pascal TARITS, Mioara MANDEA

M IAMAS**MI02 Tuesday, July 1 AM****CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)**

Location: Site B, Room 17

Presiding Chairs: D. Randall, G.A. Issac, Q. Fu, H. Okamoto

0900 MI02/01A/B17-001
SURFACE AND TOA RADIANT FLUX DENSITIES INFERRED FROM PASSIVE REMOTELY SENSED DATA
Franz H. BERGER, Angela SCHWIEBUS, Bettina KETZER

0915 MI02/01A/B17-002
VALIDATION OF THE FIRST DATA FROM THE GEOSTATIONARY EARTH RADIATION BUDGET EXPERIMENT
Jacqueline Elizabeth RUSSELL

0930 MI02/01A/B17-003
INFLUENCE OF FEEDBACK ON THE ANNUAL VARIATION OF GLOBAL MEAN SURFACE TEMPERATURE
Yoko TSUSHIMA, Ayako Abe OUCHI, Syukuro MANABE

0945 MI02/01A/B17-004
ANALYSIS OF BROADBAND SHORTWAVE RADIANCES OBSERVED OVER SNOW-COVERED SURFACE BY CERES INSTRUMENTS ON TERRA
Seiji KATO, Norman G. LOEB

1000 MI02/01A/B17-005
FACTORS AFFECTING SURFACE CLOUD RADIATIVE FORCING AT THE NORTH SLOPE OF ALASKA
Erica L. KEY, Peter J. MINNETT, Robert H. EVANS, Tim N. PAKYRIAKOU, Bruce A. ALBRECHT

1015 BREAK

1045 MI02/01A/B17-006
CLOUD OBSERVATIONS FOR CLIMATE RESEARCH: AN INTEGRATED APPROACH
Thomas P. ACKERMAN

1115 MI02/01A/B17-007
EARTHCARE SATELLITE INSTRUMENTATION FOR CLOUDS, AEROSOLS AND RADIATION OBSERVATION
Toshiyoshi KIMURA, Kayoko KONDO, Hiroshi KUMAGAI, Hiroshi KUROIWA, Chu ISHIDA, Riko OKI, Nobuo SUGIMOTO, Hajime OKAMOTO, Ryouichi IMASU, Teruyuki NAKAJIMA

1130 MI02/01A/B17-008
A SATELLITE CLOUD, RADIATION AND PRECIPITATION DATA SET FOR CLIMATE SENSITIVITY STUDIES
Kuan-Man XU, Takmeng WONG, Lindsay PARKER

1145 MI02/01A/B17-009
RETRIEVAL OF CLOUD GEOMETRICAL PROPERTIES USING SATELLITE REMOTE SENSING DATA
Makoto KUJI, Sonoyo MUKAI, Teruyuki NAKAJIMA

1200 MI02/01A/B17-010
SIMULATION OF THE EARTHCARE MISSION
David Patrick DONOVAN

1215 MI02/01A/B17-011
A COMPARISON OF THE MICROPHYSICAL AND RADIATIVE PROPERTIES OF CIRrus, WAVE AND ANVIL CLOUDS
Paul LAWSON, Brad BAKER, Bryan PILSON, Qixu MO

MI10 Tuesday, July 1 AM**MODELING PRE-HOLOCENE CLIMATES (ICCI, IRC, ICACGP)**

Location: Site C, Room 26

Presiding Chair: A. Bush

0950 MI10/01A/C26-001 Invited
COUPLED ATMOSPHERE-OCEAN MODELS OF THE LATE MAASTRICHTIAN
Paul J. VALDES

1020 MI10/01A/C26-002
GLOBAL ATMOSPHERIC SIGNALS REVEALED USING THE EMPIRICAL MODE DECOMPOSITION METHOD
Katie COUGHLIN, Ka-Kit TUNG

1040 MI10/01A/C26-003
EFFECTS OF HIGHER ATMOSPHERIC CO₂ CONCENTRATION AND ABSENCE OF ICE SHEETSON GLOBAL CLIMATE IN A COUPLED OCEAN-ATMOSPHERE MODEL
Tatsuo MOTOI, Wing-Le CHAN, Hyungmoh YIH

**WEEK
A
TUE
AM**

1100 MI10/01A/C26-004
A CONCEPTUAL THEORY OF A COUPLED OCEAN-ATMOSPHERE
Hsien-Wang OU

1120 MI10/01A/C26-005
STRUCTURE OF SURFACE LEVEL PRESSURE OVER ARCTIC FOR 1958-1998
AND NEAREST CLIMATE CHANGES
Oleg Y. KORNEEV

1140 MI10/01A/C26-006
OBSERVED CHANGES IN ANTARCTIC CLIMATIC SYSTEM
Victor E. LAGUN, Svetlana V. JAGOVKINA

MC10-Posters Tuesday, July 1 AM

**PROSPECTS FOR AND PAST EXAMPLES OF UNEXPECTED
NONLINEARITIES, THRESHOLDS, AND SURPRISES IN THE
CLIMATE SYSTEM (ICCI)**
Location: Site D

Co-Conveners: M.C. MacCracken, K. Alverson, A. Abe-Ouchi

0830-178 MC10/01A/D-001 Poster
ON THE THERMODYNAMICS OF THE OCEANIC GENERAL CIRCULATION:
IRREVERSIBLE TRANSITION TO A STATE WITH HIGHER RATE OF ENTROPY
PRODUCTION
Shinya SHIMOKAWA, Hisashi OZAWA

0830-179 MC10/01A/D-002 Poster
FRACTAL INFORMATION STRUCTURE IN CLIMATE FLUCTUATION-----
INCREASE OF FRACTAL DIMENSION AS TRIGGER OF AVALANCHE-----
Kenichi KAMIJO, Takaomi KATO



P02 Tuesday, July 1 AM

**MARGINAL AND SEMI-ENCLOSED SEAS AND THEIR
EXCHANGE WITH THE OPEN OCEAN**
Location: Site C, Room 25

Presiding Chair: C. Mooers

0900 P02/01A/C25-001
OCEAN MARGIN EXCHANGE IN THE SUB-POLAR NORTH-EAST ATLANTIC
John M. HUTHNANCE

0930 P02/01A/C25-002
SCALING ANALYSIS FOR THE INTERACTION BETWEEN A BUOYANT
COASTAL CURRENT AND THE CONTINENTAL SHELF
Pablo HUQ, Greg AVICOLA

0950 P02/01A/C25-003
TURBULENCE CONTROL OF AGGREGATE SIZE IN SUSPENDED MATTER
Colin F. JAGO, Sarah E. JONES, Tom P. RIPPETH, John H. SIMPSON

1010 P02/01A/C25-004
EXCHANGES BETWEEN THE DEEP OCEAN AND SHELF SEAS
John A. JOHNSON

1020 BREAK

1040 P02/01A/C25-005 Invited
CONNECTIVITY OF VARIABILITY IN THE INTRA-AMERICAS SEA: MODELING
AND REAL-TIME OPERATIONAL PREDICTION
Harley E. HURLBURT, Sylvia J. MURPHY, Ole Martin SMEDSTAD, Tamara L.
TOWNSEND, Steven P. ANDERSON, Eric P. CHASSIGNET, Patrick J. HOGAN, Jay
F. SHRIVER, Alan J. WALLCRAFT

1110 P02/01A/C25-006
SUBMESOSCALE COASTAL OCEAN CURRENT RESPONSE TO SURFACE
WINDS
Lynn K. SHAY, Thomas M. COOK, William W. DRENNAN, Edgar P. AN

1130 P02/01A/C25-007
ENERGETIC BAROCLINIC SUPER-TIDAL OSCILLATIONS ON THE SHELF OFF
SOUTHEAST FLORIDA
Alexander V. SOLOVIEV, Mark E. LUTHER, Robert H. WEISBERG

1150 P02/01A/C25-008
'SANTA ANA' WINDS AND UPWELLING FILAMENTS OFF THE NORTHERN
BAJA CALIFORNIA COAST
Armando TRASVINA, Modesto ORTIZ-FIGUEROA

1210 P02/01A/C25-009
TIME-SERIES ANALYSIS OF REMOTE-SENSED CHLOROPHYLL AND
ENVIRONMENTAL FACTORS IN THE SANTA MONICA-SAN PEDRO BASIN OFF
SOUTHERN CALIFORNIA
Nikolay Pavlovich NEZLIN

P03 Tuesday, July 1 AM

**THE ROLE OF TIDES, MESOSCALE PROCESSES, AND
BOTTOM TOPOGRAPHY IN ENERGY TRANSFER AND MIXING**
Location: Site B, Room 19

Presiding Chair: S. Thorpe

0900 P03/01A/B19-001
VERTICAL CIRCULATION DUE TO INTERNAL WAVES SHOALING ON A SLOPE
Keisuke NAKAYAMA, Jorg IMBERGER

0920 P03/01A/B19-002
WIDESPREAD INTENSE DIAPYCNAL MIXING IN THE DEEP SCOTIA SEA,
SOUTHERN OCEAN
Alberto C. NAVEIRA GARABATO, Kurt L. POLZIN, Brian A. KING, Karen J.
HEYWOOD, Andrew J. WATSON

0940 P03/01A/B19-003
THREE-DIMENSIONAL STUDY OF PHYSICAL PROCESSES CONTROLLING
THE INTENSITY OF DIAPYCNAL MIXING IN THE DEEP OCEAN
Michio WATANABE, Toshiyuki HIBIYA

1000 P03/01A/B19-004
THREE-DIMENSIONAL NUMERICAL SIMULATION OF THE M2 INTERNAL
TIDES IN THE PACIFIC OCEAN
Yoshihiro NIWA, Toshiyuki HIBIYA

1020 BREAK

1100 P03/01A/B19-005
NONLINEAR RESPONSES OF THE DEEP OCEAN INTERNAL WAVE FIELD TO
THE M2 TIDAL FORCING AT MID AND HIGH LATITUDES
Nobuyuki IWAMAE

1120 P03/01A/B19-006
A PARAMETERIZATION OF TIDALLY DRIVEN MIXING IN A NUMERICAL
MODEL OF THE OCEAN GENERAL CIRCULATION
Harper Lightfoot SIMMONS, Steven R. JAYNE, Louis C. ST. LAURENT, Andrew J.
WEAVER

1140 P03/01A/B19-007
ENERGY DISSIPATION RATE INFERRED FROM SPECTRA OF LONG
INTERNAL GRAVITY WAVES
Roman E. GLAZMAN, Yuri GOLUBEV

1200 P03/01A/B19-008
OCEAN-ACOUSTIC STUDIES OF SOLITARY WAVES OF DEPRESSION AND
ELEVATION
Alex C. WARN-VARNAS, Stan CHIN-BING, David KING, Jim HAWKINS, Kevin
LAMB, Jim LYNCH

P05 Tuesday, July 1 AM

THE PHYSICAL OCEANOGRAPHY OF THE INDIAN OCEAN
Location: Site B, Room 23

Presiding Chairs: J. McCreary, S.-P. Xie

0900 P05/01A/B23-001
INTERACTION OF INDIAN OCEAN DYNAMICS WITH THE ATMOSPHERE
Shang-Ping XIE, H. ANNAMALAI, Friedrich A. SCHOTT, Julian P. MCCREARY,
Gabriel A. VECCHI, Albert S. FISCHER

0930 P05/01A/B23-002
OBSERVED STRUCTURE OF SST AND SURFACE WIND VARIABILITY DURING
INDIAN OCEAN DIPOLE MODE EVENTS AND THEIR RELATION TO ENSO
Saji N. HAMEED, Toshio YAMAGATA

0950 P05/01A/B23-003
THE INTERANNUAL VARIABILITY IN THE TROPICAL INDIAN OCEAN
Bohua HUANG

1010 P05/01A/B23-004
THE RELATIONSHIP BETWEEN THE INTERANNUAL VARIATION OF THE
INDIAN OCEAN SST INDUCED BY THE INDIAN MONSOON AND ENSO
Motoki NAGURA, Masanori KONDA

1030 BREAK

1100 P05/01A/B23-005
INTRASEASONAL VARIABILITY OVER THE INDIAN OCEAN: A COUPLED
OCEAN/ATMOSPHERE PERSPECTIVE
Weiqing HAN

1130 P05/01A/B23-006
A CONCEPTUAL MODEL FOR THE INDIAN OCEAN ZONAL MODE
H. ANNAMALAI, R. MURTUGUDDE, J. POTEMRA, J.P. MCCREARY

1150 P05/01A/B23-007
SOUTH INDIAN OCEAN CLIMATE VARIABILITY WITH AND WITHOUT AN
ACTIVE ENSO
Astrid BAQUERO-BERNAL, Mojib LATIF

1210 P05/01A/B23-008
 SURFACE AND SUBSURFACE DIPOLE VARIABILITY IN THE INDIAN OCEAN
 AND ITS RELATION WITH ENSO
 Toshiaki SHINODA, Harry H. HENDON, Michael A. ALEXANDER



SS01 Tuesday, July 1 AM

SEISMOLOGICAL OBSERVATION AND INTERPRETATION
 Location: Site A, Room 9

Program Group J. Havskov, P. Bormann, J. Campos, P.G. Richards, R. Willemann
 Presiding Chairs: D.A. Storchak, F. Waldhauser

0900 SS01/01A/A09-001
 PROMINENT FEATURES OF EARTHQUAKE CATALOG OF JAPAN SINCE 1923
 TO THE PRESENT
 Nobuo HAMADA

0915 SS01/01A/A09-002
 ANALYSIS OF INTRA-PLATE SEISMICITY IN SOUTHWEST JAPAN
 Alex J. SMITH, Phil R. CUMMINS, Toshitaka BABA, Shuichi KODAIRA, Yoshiyuki
 KANEDA

0930 SS01/01A/A09-003
 STATIC STRESS CHANGES AND TRIGGERING OF AFTERSHOCKS IN THE
 1999 CHI-CHI TAIWAN EARTHQUAKE SEQUENCES
 Satoru NAGAI, Naoshi HIRATA

0945 SS01/01A/A09-004
 WHAT IS GOING ON AROUND A POTENTIALLY SEISMOGENIC ZONE IN THE
 TOKAI REGION, JAPAN ?
 Shozo MATSUMURA

1000 SS01/01A/A09-005
 SEISMICITY AND ANALYSIS OF VOLCANIC TREMOR OF MT. SEMERU, EAST
 JAVA-INDONESIA : CRISIS OF NOVEMBER 2002 - JANUARY 2003
 Hetty TRIASTUTY, Iyan MULYANA, Mas A. PURBAWINATA, Muhammad
 HENDRASTO

1015 SS01/01A/A09-006
 PATTERN OF SEISMICITY IN IRANIAN PLATEAU REVEALED FROM LOCAL
 SEISMIC NETWORKS
 Mohammad Reza GHEITANCHI

1030 BREAK

1100 SS01/01A/A09-007
 CLUSTERING OF SEISMICITY IN THE KANTO AND TOKAI SUBDUCTION
 ZONES: IMPLICATIONS FOR MODES OF PLATE CONSUMPTION
 Shin-ichi NOGUCHI

1115 SS01/01A/A09-008
 SEISMICITY OFF TOKAI DISTRICT OBSERVED BY POP-UP TYPE OCEAN
 BOTTOM SEISMOGRAPHS
 Gen AOKI, Akira YAMAZAKI, Yasuhiro YOSHIDA, Yuzo ISHIKAWA, Masao
 ABE, Seiichi MASAKA, Hajime TAKEUCHI

1130 SS01/01A/A09-009
 BACKGROUND AND INDUCED SEISMICITY OF BERKE HED SITE,
 SOUTHEASTERN TURKEY
 Haluk EYIDOĞAN, Mustafa UCOK, Mehmet BASAR, Ahmet OKELER

1145 SS01/01A/A09-010
 SEISMICITY, SOURCE MECHANISM AND NATURE OF PLATE MOVEMENT IN
 NORTHWEST HIMALAYAN REGION
 Avadh RAM, Shiv Chand RAM

1200 SS01/01A/A09-011
 THE EFFECT OF SEISMICITY DISTRIBUTION AND STRESS CHANGES ON THE
 EARTHQUAKE INTERACTION IN TAIWAN
 Tsui-Yu CHANG, Kuo-Fong MA, Yuh-Ing CHEN, Yi-Ben TSAI

1215 SS01/01A/A09-012
 INSTRUMENTAL SEISMICITY IN IRAN
 Mohammad ASHTARI JAFARI



V10-Posters Tuesday, July 1 AM

VOLCANO STRUCTURE AND SCIENTIFIC DRILLING
 Location: Site D

Convener: J. Eichelberger
 Co-Conveners: S. Nakada, S. Tait

0830-225 V10/01A/D-001 Poster
 SURFACE RUPTURES INDUCED BY USU 2000 ERUPTION, AT THE WESTERN
 FLANK OF USU VOLCANO, SOUTHWESTERN HOKKAIDO, JAPAN
 Wataru HIROSE, Jun TAJIKA

0830-226 V10/01A/D-002 Poster
 SEQUENCE AND SCENARIO OF THE 1663 ERUPTION OF USU VOLCANO,
 HOKKAIDO JAPAN
 Yugo NAKAMURA, Akiko MATSUMOTO, Mitsuhiro NAKAGAWA

0830-227 V10/01A/D-003 Poster
 STRATIGRAPHIC AND PETROLOGIC FEATURES OF ZAO-GOSHIKIDAKE
 VOLCANO, NE-JAPAN
 Masao BAN, Yuzo TANAKA, Kumiko AGETSUMA, Masahito WATANABE, Hiyori
 SAGAWA

0830-228 V10/01A/D-004 Poster
 A PRECISE GRAVITY SURVEY ON ADATARA VOLCANO, NORTHEASTERN
 JAPAN
 Yoshihito TAKEDA, Sadato UEKI, Hiroyuki HAMAGUCHI

0830-229 V10/01A/D-005 Poster
 ORIGIN OF ORANGE SCORIA FROM OMUROYAMA VOLCANO, JAPAN
 Tsutomu FUJIE, Tsukasa OUBA, Hirokazu FUJIMAKI, Kenichi ISHIKAWA, Satoru
 NAKASHIMA

0830-230 V10/01A/D-006 Poster
 GEOENVIRONMENTAL INVESTIGATION OF BOREHOLE CORES AT THE FOOT
 OF MT. FUJI, CENTRAL JAPAN
 Satoshi KOSHIMIZU, Takashi UCHIYAMA, Genju YAMAMOTO, Kazuya
 YOSHIZAWA

0830-231 V10/01A/D-007 Poster
 GROUNDWATER SYSTEM OF UNZEN VOLCANO INFERRED FROM PORE
 WATERS IN THE 1463 M-DEEP USDP-2 BOREHOLE: PRELIMINARY RESULTS
 Masaya YASUHARA, Kohei KAZAHAYA, Akihiko INAMURA, Tomoaki SUMII,
 Hideo HOSHIZUMI, Masaaki TAKAHASHI, Kozo UTO

0830-232 V10/01A/D-008 Poster
 EXPERIMENTAL CONSTRAINTS ON MAGMA ASCENT DURING THE UNZEN
 1990-95 ERUPTION, JAPAN
 Yuki SUZUKI, Setsuya NAKADA, James E. GARDNER, John C. EICHELBERGER

0830-233 V10/01A/D-009 Poster
 LOCATION OF CONDUIT INFERRED BY GEOCHEMICAL SURVEY AT UNZEN
 VOLCANO, JAPAN
 Rie UNOKI, Ryuichi ITOI, Koichiro FUKUOKA, Sachio EHARA

0830-234 V10/01A/D-010 Poster
 K-AR AND LASER 40AR/39AR AGE DETERMINATIONS OF USDP CORES IN
 UNZEN SCIENTIFIC DRILLING PROJECT
 Akikazu MATSUMOTO, Kozo UTO, Hideo HOSHIZUMI, Masafumi SUDO

0830-235 V10/01A/D-011 Poster
 FAN-SHOOTING REFLECTION PROFILE IN UNZEN VOLCANO
 Atsushi WATANABE, Satoshi MATSUMOTO, Kenji UEHIRA, Norimichi
 MATSUWO, Hiroshi SHIMIZU

0830-236 V10/01A/D-012 Poster
 SURFACE MORPHOLOGY OF THE 1991-1995 LAVA DOME AT UNZEN
 VOLCANO, JAPAN
 Yoshihiko GOTO, Yasuo MIYABUCHI

0830-237 V10/01A/D-013 Poster
 COMBINATION OF INTENSE FIELD WORK AND LABORATORY
 INVESTIGATION EXPERIMENTAL INVESTIGATION OF FRAGMENTATION
 BEHAVIOUR OF UNZEN
 Ulrich KUEPPERS, Bettina SCHEU, Sebastien MUELLER, Ben M. KENNEDY,
 Oliver SPIELER

0830-238 V10/01A/D-014 Poster
 SEISMIC ACTIVITY ASSOCIATED WITH THE ENDOGENOUS GROWTH OF
 LAVA DOME AT UNZEN VOLCANO, JAPAN
 Kodo UMAKOSHI, Hiroshi SHIMIZU, Norimichi MATSUWO

0830-239 V10/01A/D-015 Poster
 CONDUIT IMAGING FOR UNZEN VOLCANO, KYUSHU, JAPAN BY SEISMIC
 REFLECTION SURVEY
 Satoshi MATSUMOTO, Hiroshi SHIMIZU, Kenji UEHIRA, Norimichi MATSUWO,
 Masazumi ONISHI

**WEEK
 A
 TUE
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0830-240 V10/01A/D-016 Poster
VOLCANISM AND MAGMATISM OF UNZEN VOLCANO AND SURROUNDING AREA, SOUTHWEST JAPAN
Kozo UTO, Hideo HOSHIZUMI, Hoang NGUYEN, Akikazu MATSUMOTO, Kazukiyo OGURI, Nobuo GESHI

0830-241 V10/01A/D-017 Poster
REDETERMINATION OF HYPOCENTERS BY USE OF TREE-DIMENSIONAL VELOCITY STRUCTURE IN UNZEN VOLCANO
Mitsutaka OHSHIMA, Hiroshi SHIMIZU, Norimichi MATSUWO, Kodo UMAKOSHI

0830-242 V10/01A/D-018 Poster
CHEMICAL COMPOSITION OF VOLCANIC GASES FROM MT.UNZEN, JAPAN: IMPLICATION TO THE MAGMA DEGASSING PROCESS
Takeshi OHBA, Jun-ichi HIRABAYASHI, Kenji NOGAMI

0830-243 V10/01A/D-019 Poster
DOME GROWTH AND DEGASSING DURING THE 1991-1995 ERUPTION OF UNZEN VOLCANO, JAPAN
Keiichi FUKUI

0830-244 V10/01A/D-020 Poster
EXPERIMENTAL QUANTIFICATION OF FRAGMENTATION PARAMETERS FOR SAMPLES FROM SOUFRIERE HILLS VOLCANO, MONTSERRAT: IMPLICATIONS FOR EXPLOSIVE ERUPTIONS
Ben M. KENNEDY, Oliver SPIELER, Ulrich KUEPPERS, Bettina SCHEU, Jacopo TADDEUCCI, Don DINGWELL

0830-245 V10/01A/D-021 Poster
A NUMERICAL STUDY ON GROWTH RATE OF BUBBLES IN SHEAR FLOW
Hiroaki NIIMURA

0830-246 V10/01A/D-022 Poster
EFFECTS OF RELATIVE MOTION BETWEEN LIQUID AND GAS PHASES ON TRANSITION OF ERUPTION STYLES
Tomofumi KOZONO, Takehiro KOYAGUCHI

0830-247 V10/01A/D-023 Poster
A HIERARCHICAL PERMEABLE FLOW MODEL FOR DEGASSING PROCESS FROM VOLCANIC CONDUITS
Yoshiaki IWAMURO, Hiroaki NIIMURA, Takehiro KOYAGUCHI

0830-248 V10/01A/D-024 Poster
A NEW MECHANISM OF OSCILLATORY MAGMA EFFUSION AND PRESSURE CHANGES DURING LAVA DOME GROWTH
Muga NAKANISHI, Takehiro KOYAGUCHI

V12 Tuesday, July 1 AM

DETECTING MAGMA CHAMBERS

Location: Site A, Room 4

Convener: J.M. Lees
Co-Conveners: V. Cayol, M. Ukawa
Presiding Chairs: J.M. Lees, E. Fujita

0900 V12/01A/A04-001
OBSERVED GROUND DEFORMATION AT PAPANDAYAN VOLCANO, PRIOR TO AND DURING THE 2002 ERUPTIONS
Ony K. SUGANDA, Hasanuddin Z. ABIDIN, M. Hendrasto , M. Gamal , C. Patria, W. Irawan , Y. Hidayat

0915 V12/01A/A04-002
MAGMA INTRUSION AND DISCHARGE PROCESS AT THE INITIAL STAGE OF THE 2000 MIYAKEJIMA ACTIVITY INFERED FROM TILT AND GPS DATA
Hideki UEDA, Eisuke FUJITA, Motoo UKAWA, Eiji YAMAMOTO, Irwan MEILANO, Fumiaki KIMATA

0930 V12/01A/A04-003
COMPLEX INVESTIGATIONS OF MT. ELBRUS MAGMATIC CENTER FROM COMBINATION OF RELATIVE GRAVITY AND TIDAL STRAIN DATA
Alexander KOPAEV, Anatoly GURBANOV, Vadim MILYUKOV, Shuzo TAKEMOTO, Victor YUSHKIN, Shuzo TAKEMOTO

0945 V12/01A/A04-004
SEARCH FOR MAGMA BENEATH LONG VALLEY CALDERA: NEW APPROACHES IN DEFORMATION MODELING
Doerte MANN, Paul SEGALL

1000 V12/01A/A04-005
MAPPING AND INVERSION OF THE GRAVITY FIELD AROUND MERAPI VOLCANO
Carl GERSTENECKER, S.B. KIRBANI, Imam SUYANTO

1015 V12/01A/A04-006
TIME DEPENDENT OF MAGMA INTRUSION MODEL DURING THE EARLY STAGE OF THE 2000 MIYAKEJIMA ACTIVITY
Meilano IRWAN, Fumiaki KIMATA, Naoyuki FUJII

1030 V12/01A/A04-007
THREE-DIMENSIONAL MAGNETOTELLURIC IMAGING MAGMA CHAMBERS
Vjacheslav V. SPICHAK

1045 V12/01A/A04-008
SEISMIC DETECTION OF MAGMA USING RECEIVER FUNCTION ANALYSIS, TAUPO VOLCANIC ZONE, NEW ZEALAND
Stephen BANNISTER, Hugh M. BIBBY, Carol J. BRYAN

1100 BREAK

1115 V12/01A/A04-009
THREE-DIMENSIONAL VELOCITY STRUCTURE FROM EARTHQUAKES AT KATMAI NATIONAL PARK, ALASKA: IMPLICATIONS FOR EARTHQUAKE RELOCATIONS AND SPATIAL FREQUENCY-SIZE DISTRIBUTIONS
Arthur D. JOLLY, Seth C. MORAN, Stephen R. MCNUTT

1130 V12/01A/A04-010
THE SWARM ACTIVITY OF MID-CRUSTAL LOW FREQUENCY EARTHQUAKES DURING 2000 TO 2001 AND MAGMA RESERVOIR AT MOUNT FUJI
Motoo UKAWA, Eisuke FUJITA, Jonathan M. LEES

1145 V12/01A/A04-011
EARTHQUAKE RELOCATION BENEATH THE LASSEN PEAK REGION IN NORTHEASTERN CALIFORNIA USING CROSS-CORRELATION AND THE DOUBLE-DIFFERENCE METHOD
Tanya M. BLACIC, James S. MCCLAIN

1200 V12/01A/A04-012
KLIUCHEVSKOI: CUSP VOLCANO EXHIBITS DEEP MAGMA SOURCE
Jonathan M. LEES

1215 V12/01A/A04-013
SEISMICITY PATTERN: AN INDICATOR OF SOURCE REGION AND DISTRIBUTION OF VOLCANISM AT CONVERGENT PLATE MARGINS
Ales SPICAK, Vaclav HANUS, Jiri VANEK

1230 V12/01A/A04-014
EXPERIMENTAL APPROACH TO MAGMA ASCENT DURING THE USU 2000 ERUPTION, JAPAN
Yuki SUZUKI, James E. GARDNER

1245 V12/01A/A04-015
DETECTING MAGMA CHAMBERS BY PETROLOGICAL AND FLUID INCLUSION STUDIES IN THE AEOLIAN ARC VOLCANOES
Maria Luce FREZZOTTI, Angelo PECCERILLO

1300 V12/01A/A04-016
SUBSURFACE TWO-PHASE MAGMA PLUMBINGSYSTEM BENEATH MIYAKEJIMA VOLCANO, JAPAN
Eisuke FUJITA, Hideki UEDA, Eiji YAMAMOTO, Motoo UKAWA

Tuesday, July 1 PM

IA INTER-ASSOCIATION

JSA02-Posters Tuesday, July 1 PM

EXTERNAL FORCING ON THE MIDDLE ATMOSPHERE AND IONOSPHERE (IAGA, IAMAS)

Location: Site D

Conveners: D. Pancheva, E. Kazimirovsky
Co-Conveners: L. Hood

1400-001 JSA02/01P/D-001 Poster
ACOUSTIC-GRAVITY WAVES PRODUCED BY THE SEPTEMBER 24 2002 VITIM FIREBALL AND THEIR EFFECTS ON THE IONOSPHERE AT KOLA PENINSULA
Oleg I. SHUMILOV, Elena A. KASATKINA, Evgeny D. TERESHCHENKO, Vladimir D. TERESHCHENKO, Sergey N. KULICHKOV, Alexey N. VASILJEV

1400-002 JSA02/01P/D-002 Poster
THE CLIMATOLOGY OF INTERMEDIATE LAYER IN THE EQUATORIAL ANOMALY REGION
Chien-Chih LEE, J.Y. LIU, C.J. PAN, C.C. CHEN

1400-003 JSA02/01P/D-003 Poster
EXCITATION OF THE EARTH SURFACE AND IONOSPHERE RECORDED SIMULTANEOUSLY BY LASER STRAINMETER AND GPS DATA PROCESSING
Mstislav N. DUBROV, Vladimir M. SMIRNOV

1400-004 JSA02/01P/D-004 Poster
SEASONAL VARIATIONS IN SYNOPTICAL OSCILLATIONS OF SPORADIC E LAYER
Eugene Yurjevich RYABCHENKO, Oleg Nikolaevich SHERSTYUKOV

1400-005 JSA02/01P/D-005 Poster
SHORT-PERIOD WAVE DISTURBANCE IN AREA E OF AN IONOSPHERE ON THE DATA OF DOPPLER PHASE-GONIOMETRIC MEASUREMENT.
Oleg Nikolaevich SHERSTYUKOV, Vladimir Vladimirovich BOCHKAREV, Inna Romanovna PETROVA, Vadim Yurievich TEPOV

1400-006 JSA02/01P/D-006 Poster
STATISTICS OF HORIZONTAL MOVEMENT OF INTENSE SPORADIC E LAYER
Oleg Nikolaevich SHERSTYUKOV, Adel Djavidovich AKCHURIN, Evgeniy Yurievich ZYKOV

1400-007 JSA02/01P/D-007 Poster
SPORADIC E LAYER UNDER INFLUENCE OF DYNAMICAL PROCESSES IN THE MLT-REGION
Antonina Nickolaevna FAHRUTDINOVA, Oleg Nickolaevich SHERSTYUKOV, Vladimir Vladimirovich GURYANOV, Sergey Vladimirovich MAKSYUTIN, Artem Yurjevich ELKIN

1400-008 JSA02/01P/D-008 Poster
INVESTIGATION OF MESOSPHERE DISTURBANCES CAUSED BY INFRASONIC WAVES FROM GROUND-BASED SOURCE
Viktor Ovseevich RAPOPORT, Peter Alexeevich BESPALOV, Nikolay Anatolyevich MITYAKOV, Michel PARROT, Nikolay Alexandrovich RYZHOV

1400-009 JSA02/01P/D-009 Poster
NONMIGRATING TIDES IN THE MLT AS SIMULATED BY THE NCAR TIME-GCM
Jens OBERHEIDE, Maura E. HAGAN, Raymond G. ROBLE, Astrid MAUTE

1400-010 JSA02/01P/D-010 Poster
EFFECTS OF THE ORIENTATION OF THE IMF ON LOW LATITUDE IONOSPHERE
Sarmoko SAROSO, Anwar SANTOSO

1400-011 JSA02/01P/D-011 Poster
INTERACTION OF THE SOLAR WIND WITH THE SYSTEM MAGNETOSPHERE -IONOSPHERE -ATMOSPHERE
Ludmila Nikolaevna MAKAROVA, Alexander Vasilievich SHIROCHKOV

JSA03 Tuesday, July 1 PM
EQUATORIAL MIDDLE ATMOSPHERE-THERMOSPHERE-IONOSPHERE DYNAMICS AND ENERGETICS (IAGA, IAMAS, SCOSTEP)
Location: Site A, Room 5

Presiding Chairs: B.G. Fejer, M.A. Abdu

1400 JSA03/01P/A05-001
THE COPEX CAMPAIGN: PRELIMINARY RESULTS ON EQUATORIAL SPREAD F, SCINTILLATION AND PLASMA BUBBLES
Inez S. BATISTA, M.A. ABDU, B.W. REINISCH, E.R. DE PAULA, K.M. GROVES, A.F. DE MEDEIROS, N.J. SCHUCH, H. TAKAHASHI

1425 JSA03/01P/A05-002
EQUATORIAL SPREAD F AND IONIZATION ANOMALY DEVELOPMENTS AS DIAGNOSED FROM CONJUGATE POINTS OBSERVATIONS (COPEX) IN BRAZIL
Mangalathayil Ali ABDU, Inez S. BATISTA, Bodo W. REINISCH, Jonas R.de SOUZA, Eurico R.de PAULA, Jose H.A SOBRAL, Terrence W. BULLETT

1445 JSA03/01P/A05-003
GEOMAGNETIC CONJUGATE OBSERVATIONS OF EQUATORIAL AIRGLOW DEPLETIONS
Yuichi OTSUKA, Kazuo SHIOKAWA, Tadahiko OGAWA, Phil WILKINSON

1510 JSA03/01P/A05-004
RELATIONSHIP BETWEEN ATMOSPHERIC GRAVITY WAVES AND DAY-TO-DAY VARIABILITY OF SPREAD F AT LOW LATITUDE
Buldan MUSLIM, Dyah Rahayu MARTININGRUM, Bambang SETYADJI

1530 JSA03/01P/A05-005
ELECTRODYNAMICS OF THE TROPICAL F-REGION IONOSPHERE IN THE BRAZILIAN SECTOR
Paulo R. FAGUNDES, Yogeshwar SAHAI, Marcio T.A.H. MUELLA, Washington L.C. LIMA, Fabio BECKER-GUEDES, Jose R. ABALDE

1550 BREAK

1610 JSA03/01P/A05-006
EQUATORIAL IONOSPHERIC ELECTRODYNAMICS UNDER DISTURBED CONDITIONS
Bela G. FEJER

1635 JSA03/01P/A05-007
EQUATORIAL IONOSPHERE-THERMOSPHERE RESPONSES TO GEOMAGNETIC DISTURBANCES
Hanumath Sastri JANDHAYALA

1700 JSA03/01P/A05-008
MODELING THE EQUATORIAL IONOSPHERIC RESPONSE TO MAGNETOSPHERIC DISTURBANCES
Tim FULLER-ROWELL, Mihail CODRESCU, Naomi MARUYAMA, Arthur RICHMOND, George MILLWARD

1725 JSA03/01P/A05-009
EQUATORIAL COUNTER-ELECTROJETS DURING SUBSTORMS
Takashi KIKUCHI, Kumiko K. HASHIMOTO, Tai-Ichi KITAMURA, Hiroshi TACHIHARA, Bela G.FEJER

1745 JSA03/01P/A05-010
ENHANCEMENT IN IONOSPHERIC TEMPERATURES DURING THUNDERSTORMS
Jagdish RAI, D.K. SHARMA, M. ISRAIL, P. SUBRAHMANYAM, P. CHOPRA, S.C. GARG

JSA03-Posters Tuesday, July 1 PM
EQUATORIAL MIDDLE ATMOSPHERE-THERMOSPHERE-IONOSPHERE DYNAMICS AND ENERGETICS (IAGA, IAMAS, SCOSTEP)
Location: Site D

Presiding Chair: K. Shiokawa

1400-012 JSA03/01P/D-001 Poster
SPREAD-F/PLASMA BUBBLE SEASONAL EFFECTS OVER SUB-EQUATORIAL LOCATIONS IN BRAZIL
Jose H. Andrade SOBRAL

1400-013 JSA03/01P/D-002 Poster
THE ROLE OF DUSTS ON THE EQUATORIAL ELECTROJET CURRENTS
Vaman H. KULKARNI, Muralikrishna P.

1400-014 JSA03/01P/D-003 Poster
DYNAMICS OF LOW LATITUDE IONOSPHERE BY DIGISONDE 256 ANIMATIONS IN IONOSPHERIC RESEARCH
Victor Hugo RIOS, Bodo REINISCH, Cesar Francisco MEDINA, Cesar VALLADARES, Terence BULLETT, Yogesh SAHAI, Enzo GOMEZ

1400-015 JSA03/01P/D-004 Poster
SIMPLIFIED INDONESIAN LOW LATITUDE IONOSPHERIC REGIONAL MODEL
Buldan MUSLIM, Dyah Rahayu MARTININGRUM, Asnawi HUSIN

1400-016 JSA03/01P/D-005 Poster
EQUATORIAL - LOW LATITUDE IONOSPHERIC F2-LAYER CRITICAL FREQUENCY MODELINGUSING RADIAL BASIS FUNCTION NEURAL NETWORK
Buldan MUSLIM

1400-017 JSA03/01P/D-006 Poster
THE E-LAYER ELECTRIC FIELDS ABOVE MAGNETIC EQUATOR
Valentin POGREBNOY

1400-018 JSA03/01P/D-007 Poster
HE+ DENSITY SUBTROUGH AS BUBBLE PHENOMENA
Larissa SIDOROVA

1400-019 JSA03/01P/D-008 Poster
MEASUREMENT OF THE ROTATIONAL TEMPERATURE AT KOLHAPUR, INDIA
Girija Kumar MUKHERJEE

1400-020 JSA03/01P/D-009 Poster
STUDY OF GEOMAGNETIC STORM INDUCED INFRASONIC WAVES AT LOW LATITUDE NORTHERN HEMISPHERE USING GROUND BASED MICROBAROGRAPH
Manohar Lal YADAV

JSM01 Tuesday, July 1 PM
TOWARD HIGH RESOLUTION CLIMATE MODELS AND EARTH SYSTEM MODELS (IAMAS, IAPSO)
Co-Sponsored by the Center for Climate System Research, University of Tokyo
Location: Site B, Room 18

Presiding Chair: A. Sumi

1400 JSM01/01P/B18-001
TOWARDS AN EARTH SYSTEM MODEL: IMPACT OF BIO-CLIMATE FEEDBACKS
Raghu G. MURTUGUDDE, Joaquim BALLABRERA-POY

1415 JSM01/01P/B18-002
THE UCLA EARTH SYSTEM MODEL: APPLICATIONS AND FURTHER DEVELOPMENTS
Carlos Roberto MECHOSO, John D. FARRARA, Daniel S. KATZ

WEEK A
TUE
PM

- 1430 JSM01/01P/B18-003**
DEVELOPMENT OF AN INTEGRATED EARTH SYSTEM MODEL ON THE EARTH SIMULATOR
Michio KAWAMIYA, Taro MATSUNO
- 1445 JSM01/01P/B18-004**
THE VERTICAL STRUCTURE OF THE MEAN ZONAL CIRCULATION AS DESCRIBED FROM THE NCEP REANALYSIS AND THE ARPEGE MODEL AND ITS RELATIONSHIP WITH THE SST FORSING
Elena V. SOKOLIKHINA, Eugene K. SEMENOV, Laurent TERRAY, Natalia N. SOKOLIKHINA
- 1515 BREAK**
- 1545 JSM01/01P/B18-005**
CLIMATE SENSITIVITY OF THE NCAR COMMUNITY CLIMATE MODEL VERSION 3 TO SPATIAL RESOLUTION
Hideyuki KITABATA, Keiichi NISHIZAWA, Junichi TSUTSUI, Yoshikatsu YOSHIDA
- 1600 JSM01/01P/B18-006**
IMPORTANCE OF MESOSCALE PROCESSES IN CLIMATE CHANGE PROJECTIONS
Raymond W. ARRITT, Zaitao PAN, Eugene S. TAKLE, Christopher J. ANDERSON, William J. GUTOWSKI, Jens H. CHRISTENSEN
- 1615 JSM01/01P/B18-007**
REGIONAL DOWNSCALING OF THE 50-YEAR NCEP/NCAR REANALYSIS FOR THE CALIFORNIA REGION
Hideki KANAMARU, Masao KANAMITSU, John ROADS
- 1630 JSM01/01P/B18-008**
COMPARATIVE STATISTICAL ANALYSIS OF SSH VARIABILITY IN TROPICAL PACIFIC USING OCM AND T/P ALTIMETER DATA FOR 10 YEARS OF T/P MISSION
Roman GLAZMAN, Yuri GOLUBEV, Yi CHAO

JSM08 Tuesday, July 1 PM

ENERGETICS AND CIRCULATION OF THE MLT REGION AND ITS COUPLING WITH CIRCULATION AND CHEMISTRY OF THE THERMOSPHERE AND STRATOSPHERE (IAMAS [ICMA, ICACGP], IAGA)
Location: Site C, Room 31

Presiding Chair: W. Ward

- 1430 JSM08/01P/C31-001 Invited**
GRAVITY WAVE PACKET INTERACTIONS WITH CHEMICAL PROCESSES IN THE MESOPAUSE REGION
Michael P. HICKEY
- 1505 JSM08/01P/C31-002**
CORRELATED VARIATIONS OF ANTARCTIC MESOPAUSE REGION AND STRATOSPHERIC TEMPERATURES IN 2002
G.B. BURNS, P.J. ESPY, T.D. KAWAHARA, A.R. KLEKOCIUK, W.J. R.FRENCH, P.T. WHILE, F.A. PHILLIPS
- 1525 JSM08/01P/C31-003 Invited**
SIMULATION OF CONVECTIVELY GENERATED GRAVITY WAVES AND AIRGLOW MODULATION -- FROM SURFACE TO THE MLT REGION
Takeshi HORINOCHI
- 1600 JSM08/01P/C31-004**
VARIATION OF OI5577 AIRGLOW EMISSION HEIGHT AND ITS EFFECT ON THE WIND VELOCITY COMPARISON BETWEEN OPTICAL AND RADAR OBSERVATION
Takuji NAKAMURA, Junsuke FUJII, Tetsuya FUKUSHIMA, Toshitaka TSUDA, Kazuo SHIOKAWA

JSM09 Tuesday, July 1 PM

INTENSE VORTICES FROM THE SMALL SCALE TO THE PLANETARY SCALE (IAMAS [ICDM], IAPSO)
Location: Site C, Room 29

Presiding Chair: L.K. Shay

- TROPICAL CYCLONES AND TORNADOES**
- 1400 JSM09/01P/C29-001**
A NUMERICAL STUDY OF TYPHOON 9019 (FLO) WITH THE USE OF A MESOSCALE-CONVECTION-RESOLVING MODEL
Masanori YAMASAKI
- 1420 JSM09/01P/C29-002**
EYEWALL ROTATION, BREAKDOWN AND REFORMATION IN TYPHOON ZEB (1998)
Chun-Chieh WU, Kun-Hsuan CHOU, Hsiu-Ju CHENG, Yuqing WANG

- 1440 JSM09/01P/C29-003**
GROUND-BASED MOBILE DOPPLER-RADAR OBSERVATIONS OF TORNADOES AND DUST DEVILS
Howard Bruce BLUESTEIN
- 1505 JSM09/01P/C29-004**
DIAGNOSED STRUCTURE OF THE MULHALL TORNADO USING VTD ALGORITHM AND STABILITY ANALYSIS
Wen-Chau LEE, Joshua WURMAN, Michael BELL, Michael T. MONTGOMER, Wesley D. TERWEY

- 1525 JSM09/01P/C29-005**
INSTABILITIES IN SWIRLING BOUNDARY LAYERS
David S. NOLAN

1545 DISCUSSION

1555 BREAK

TORNADOES, WAKE VORTICES AND DUST DEVILS

- 1610 JSM09/01P/C29-006**
NON-AXISYMMETRIC SPIN-UP OF MODELED SUPERCELL VORTEX
Brian J. GAUDET, William R. COTTON, Michael T. MONTGOMERY
- 1630 JSM09/01P/C29-007**
DUAL-DOPPLER ANALYSIS OF WINTERTIME MESOSCALE VORTICES OBSERVED ON THE WEST COAST OF HOKKAIDO ISLAND
Kawashima MASAYUKI, Yasushi FUJIYOSHI, Tetsuya TSUBAKI
- 1650 JSM09/01P/C29-008**
WINTER TORNADOES OVER THE JAPAN SEA
Fumiaki KOBAYASHI
- 1710 JSM09/01P/C29-009**
ON THE HELICAL CHARACTERISTICS OF IDEALIZED DRY CONVECTIVE VORTICES
Michael V. KURGANSKY
- 1730 JSM09/01P/C29-010**
INERTIAL ELLIPTICAL INSTABILITY OF ROTATING VON KARMAN STREET
Alexandre STEGNER, Thierry PICHON, Mathieu BEUNIER

JSM13 Tuesday, July 1 PM

DATA ASSIMILATION FOR ATMOSPHERIC AND OCEANIC PROCESSES (IAMAS [ICDM, ICCP], IAHS, IAPSO, IAGA, IAG, SPARC)
Location: Site C, Room 28

Presiding Chairs: S. Cohn, O. Talagrand

NOVEL ASSIMILATION METHODS

- 1400 JSM13/01P/C28-001**
A LOCAL ENSEMBLE KALMAN FILTER FOR ATMOSPHERIC DATA ASSIMILATION
Edward OTT, Brian R. HUNT, Istvan SZUNYOGH, Aleksey V. ZIMIN, Eric J. KOSTELICH, Matteo CORAZZA, Eugenia KALNAY, D.J. PATIL, James A. YORKE
- 1420 JSM13/01P/C28-002**
ON PHASE-BASED DATA ASSIMILATION
S. Sai RAVELA, W. Gregory LAWSON, James HANSEN, Kerry EMANUEL, Dennis MCLAUGHLIN
- 1440 JSM13/01P/C28-003**
HYBRID APPLICATION OF THE QUASI-INVERSE METHOD IN VARIATIONAL DATA ASSIMILATION
Seon K. PARK, Eugenia KALNAY
- 1500 JSM13/01P/C28-004**
HOW FINITE INSTABILITY IS RELATED TO THE 4DVAR ANALYSIS ERROR EIGEN STRUCTURE AND THE FORECASTING SKILL
Carlos A. PIRES
- 1520 JSM13/01P/C28-005 Invited**
PROGRESS TOWARDS 4DVAR AT THE UK MET OFFICE
Ian ROULSTONE

1550 BREAK

GLOBAL ASSIMILATION AND RAINFALL

- 1610 JSM13/01P/C28-006**
THE JAPANESE 25-YEAR REANALYSIS (JRA-25) PROJECT
Hitotaka KAMAHORI
- 1630 JSM13/01P/C28-007**
RECENT DEVELOPMENTS IN DIGITAL FILTER INITIALIZATION
Peter LYNCH

- 1650 JSM13/01P/C28-008**
A FORECAST IMPACT TRIAL WITH CHAMP RADIO OCCULTATION MEASUREMENTS
Sean B. HEALY, Adrian M. JUPP, Christian MARQUARDT
- 1710 JSM13/01P/C28-009 Invited**
ASSIMILATION OF PRECIPITATION INFORMATION RETRIEVED FROM PASSIVE MICROWAVE SENSORS
Arthur Y. HOU
- 1740 JSM13/01P/C28-010**
VARIATIONAL ASSIMILATION OF TMI RAIN TYPE AND PRECIPITATION RETRIEVALS INTO GLOBAL NUMERICAL WEATHER PREDICTION
Kazumasa AONASHI, Nobuo YAMAZAKI, Hirotaka KAMAHORI, Kiyotoshi TAKAHASHI, Fahua LIU, Kazuo YOSHIDA

JSM18 Tuesday, July 1 PM

MEASUREMENT AND DISTRIBUTION OF PRECIPITATION (IAMAS [ICCP, IPCM], IAHS)
Location: Site B, Room 20

Presiding Chair: S. Lovejoy

- 1400 JSM18/01P/B20-001**
MICROPHYSICAL PROPERTIES OF MESOSCALE CONVECTIVE SYSTEMS AS A FUNCTION OF CONVECTIVE INTENSITY AND THEIR EFFECTS ON MICROWAVE RAINFALL ESTIMATES
Edward J. ZIPSER
- 1415 JSM18/01P/B20-002**
SATELLITE RAINFALL ESTIMATES—AN UNDER-CONSTRAINED PROBLEM
Chris KUMMEROW, Tristan L'ECUYER, Sarah FINN
- 1430 JSM18/01P/B20-003 Invited**
THE IMPLICATIONS OF SCALING ON THE MEASUREMENT AND MODELLING OF RAINFALL
Alan W. SEED
- 1500 JSM18/01P/B20-004**
A PHYSICAL VALIDATION PROGRAM FOR THE GPM MISSION
Eric A. SMITH

JSM18-Posters Tuesday, July 1 PM

MEASUREMENT AND DISTRIBUTION OF PRECIPITATION (IAMAS [ICCP, IPCM], IAHS)
Location: Site D

- 1400-021 JSM18/01P/D-001 Poster**
THE VARIABILITY OF TRMM SATELLITE DERIVED PRECIPITATION OVER KENYA
Balla Paul MAGGERO
- 1400-022 JSM18/01P/D-002 Poster**
THE BEAM-FILLING PROBLEM REVISITED
Long S. CHIU, Alfred T.-C. CHANG, Dong-Bin SHIN
- 1400-023 JSM18/01P/D-003 Poster**
DIURNAL AND SPATIAL VARIATION OF RAINFALL OBSERVED BY TRMM PRECIPITATION RADAR
Masafumi HIROSE, Kenji NAKAMURA, Bhuwan Chandra BHATT, Takumi MATSUBARA, Prasamsa SINGH, Kouichi SHIBAKAWA, Fumie AKIMOTO
- 1400-024 JSM18/01P/D-004 Poster**
DIURNAL VARIATION OF THE TROPICAL CONVECTIONS RELATED WITH A LARGE-SCALE SYNOPTIC MOTION
Jae-Young BYON, Gyu-Ho LIM
- 1400-025 JSM18/01P/D-005 Poster**
BAYESIAN RETRIEVAL OF COMPLETE POSTERIOR PDFS OF RAIN RATE FROM TMI OBSERVATIONS
J.-Y. Christine CHIU, Grant W. PETTY
- 1400-026 JSM18/01P/D-006 Poster**
STATISTICS OF SPATIAL RAIN DISTRIBUTION REQUIRED FOR NON-UNIFORM BEAM FILLING CORRECTION IN SPACE-BORNE RADAR MEASUREMENT OF RAIN
Toshio IGUCHI
- 1400-027 JSM18/01P/D-007 Poster**
COMPARISON BETWEEN TMI/TRMM AND PR/TRMM RAINFALL ESTIMATION IN TERMS OF CLOUD INFORMATION
Toshiro INOUE
- 1400-028 JSM18/01P/D-008 Poster**
ACOUSTICAL MEASUREMENT OF RAIN AT SEA
Jeffrey A. NYSTUEN

- 1400-029 JSM18/01P/D-009 Poster**
EVALUATION OF PRECIPITATION AND LATENT HEATING FROM PASSIVE MICROWAVE MEASUREMENTS
Song YANG, William S. OLSON, Eric A. SMITH, Chris D. KUMMEROW, J.J. WANG
- 1400-030 JSM18/01P/D-010 Poster**
DEPENDENCE OF RAINDROP SIZE DISTRIBUTION ON THE LIFE STAGE OF A CONVECTIVE CLOUD
Akihiro HASHIMOTO, Toshio HARIMAYA
- 1400-031 JSM18/01P/D-011 Poster**
REGIONALISATION CLIMATIQUE DE LA ROUMANIE A PARTIR DES TOTAUX MENSUELS DE PRECIPITATIONS (1961-1990)
Liana CAZACIO
- 1400-032 JSM18/01P/D-012 Poster**
CLOUD MODELING USING FIELD PROJECT DATA FOR THE STUDY OF PRECIPITATION PROCESSES
Wei-Kuo TAO
- 1400-033 JSM18/01P/D-013 Poster**
BASIC INFORMATION MONITORING AND ANALYZING OF ZHALONG WETLAND
Hao WANG, Shiguo XU, Heyue LI, Changyou LI
- 1400-034 JSM18/01P/D-014 Poster**
RAINFALL TEMPORAL PATTERNS OF KHORASAN PROVINCE IN IRAN
Sohrab HAJJAM, Fatemeh MALEKIFARD
- 1400-035 JSM18/01P/D-015 Poster**
ON THE DETERMINATION OF REGIONAL HOMOGENEITY FOR ESTIMATING EXTREME DAILY RAINFALLS AT UNGAGED SITES
Van-Thanh-Van NGUYEN, Tan-Danh NGUYEN
- 1400-036 JSM18/01P/D-016 Poster**
AN INVESTIGATION OF MONSOON RAINFALL OVER A TROPICAL MOUNTAIN IN SOUTHEAST ASIA USING REGIONAL CLIMATE MODEL
Koji DAIRAKU, Seita EMORI, Taikan OKI, Katumi MUSIAKE
- 1400-037 JSM18/01P/D-017 Poster**
SPATIAL DISTRIBUTION OF DAILY PRECIPITATION IN NORWAY.
Ole Einar TVEITO, Eirik J. FØRLAND
- 1400-038 JSM18/01P/D-018 Poster**
QUANTITATIVE RAINFALL ESTIMATION BY USING TRMM PRECIPITATION RADAR AND GMS-5 INFRARED OVER INDOCHINA PENINSULA
Perapol BEGKHUNTOD, Shinjiro KANAE, Taikan OKI
- 1400-039 JSM18/01P/D-019 Poster**
INTENSE PRECIPITATION EVENTS AS SEEN FROM TRMM
Amita V. MEHTA, Eric A. SMITH
- 1400-040 JSM18/01P/D-020 Poster**
WALLOPS ISLAND: A CANDIDATE FOR A GROUND VALIDATION SITE FOR NASA PRECIPITATION PROGRAM
Ali TOKAY
- 1400-041 JSM18/01P/D-021 Poster**
THE RADAR RAINFALL VALIDATION FOR TORRENTIAL RAIN DURING TYPHOON NARI(2001) BY USING WSR88D RADAR AND 2-D VIDEO DISDROMETER DATA
TaiChi Chen WANG, Pay-Liam LIN, Wei-Yu CHANG
- 1400-042 JSM18/01P/D-022 Poster**
THE LAW OF DISTRIBUTION OF PRECIPITATION
Nikolay V. SOKOLOV
- 1400-043 JSM18/01P/D-023 Poster**
POTENTIAL OF X-BAND POLARIMETRIC RADAR FOR OPERATIONAL RAINFALL MEASUREMENTS
Masayuki MAKI, Sang-Goon PARK, Koyuru IWANAMI, Ryohei MISUMI, Hiromu MORIWAKI, Hiroshi UYEDA, V.N. BRINGI
- 1400-044 JSM18/01P/D-024 Poster**
ASSESSMENT OF DIFFERENT SPACE-BORNE PRECIPITATION OBSERVATIONS IN BASIN-SCALE HYDROLOGIC MODELING
Khil-Ha LEE, Emmanouil N. ANAGNOSTOU, Tufa DINKU
- 1400-045 JSM18/01P/D-025 Poster**
A NEW DSD ALGORITHM FOR THE DUAL-FREQUENCY WIND PROFILER
Eastwood IM, Li LI, Ziad S. HADDAD
- 1400-046 JSM18/01P/D-026 Poster**
SMALL-SCALE STRUCTURE OF RAIN FIELDS: RESULTS BASED ON GAUGE NETWORK, RADAR AND TRMM PR
Mekonnen GEBREMICHAEL, Witold F. KRAJEWSKI
- 1400-047 JSM18/01P/D-027 Poster**
INTERCOMPARISON OF GAUGE-MEASURED SOLID PRECIPITATION IN BARROW ALASKA
Konosuke SUGIURA, Tetsuo OHATA, Daqing YANG

WEEK
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1400-048 JSM18/01P/D-028 Poster
 THE MULTIFRACTAL LARGE PARTICLE NUMBER LIMIT IN RAIN :
 IMPLICATIONS FOR RADAR RAIN ESTIMATES
 Marc LILLEY, Shaun LOVEJOY, Daniel SCHERTZER, Nicolas DESAULNIERS-
 SOUCY

1400-049 JSM18/01P/D-029 Poster
 ESTIMATION OF RAINFALL RATES AND THEIR DIURNAL VARIATIONS OVER
 THE BAY OF BENGAL IN SUMMER MONSOON SEASON
 Kumar S.R.U.Bhanu ODURY

JSP01 Tuesday, July 1 PM

**THE DECADAL TO CENTENNIAL VARIABILITY OF THE OCEAN
 AND ATMOSPHERE (IAPSO, IAMAS, CLIVAR)**
 Location: Site B, Room 21

Presiding Chairs: J. W. Hurrell, R.R. Dickson

1400 JSP01/01P/B21-001
 TROPICAL ORIGINS FOR RECENT NORTH ATLANTIC CLIMATE CHANGE
 James Wilson HURRELL, Martin P. HOERLING

1430 JSP01/01P/B21-002
 A SEASONAL BRIDGE FOR WINTER TO WINTER VARIABILITY OF THE
 NORTHATLANTIC OSCILLATION
 Cassou CHRISTOPHE, Laurent TERRAY, Clara DESER, James HURRELL

1450 JSP01/01P/B21-003
 A DAMPED DECADAL OSCILLATION IN THENORTH ATLANTIC CLIMATE
 SYSTEM
 Carsten EDEN, Richard J. GREATBATCH

1510 JSP01/01P/B21-004
 INTERNAL VARIABILITY OF THE THERMOHALINE CIRCULATION AT
 DECADAL-CENTENNIAL TIME SCALES
 Lianke Te RAA, Henk A. DIJKSTRA

1530 JSP01/01P/B21-005
 RESPONSE OF THE ATLANTIC THERMOHALINE CIRCULATION TO THE
 ATMOSPHERIC FORCING IN A GLOBAL AIR-SEA COUPLED MODEL
 Tianjun ZHOU, Helge DRANGE

1550 BREAK

1610 JSP01/01P/B21-006
 DECADAL VARIATIONS OF THE SUB-POLAR GYRE OF THE N ATLANTIC
 Kelvin RICHARDS, Alessio BELLUCCI

1630 JSP01/01P/B21-007
 SEA SURFACE TEMPERATURE AND STRATUS FEEDBACK RELEVANT TO
 THE PAN-ATLANTIC DECADAL VARIATIONS
 Youichi TANIMOTO, Shangping XIE

1650 JSP01/01P/B21-008
 A LINK FOR MULTI-DECADAL VARIABILITY BETWEEN TROPICAL PACIFIC
 AND ATLANTIC OCEANS
 Shin-ichiro UMATANI, Takashi SETOU

1710 JSP01/01P/B21-009
 NEW EVIDENCE SUGGESTS SIGNIFICANTLY LOWER THAN PRESENT
 NORTH ATLANTIC SST'S DURING THE LATE MAUNDER MINIMUM (1675-1715)
 Aksel Walloe HANSEN, Bo Moellesoe VINSTER, Katrine Krogh ANDERSEN

1730 JSP01/01P/B21-010
 SHIFTS IN THE DISTRIBUTIONS OF PRESSURE, TEMPERATURE AND
 MOISTURE IN THE ALPINE REGION IN RESPONSE TO THE BEHAVIOR OF
 THE NORTH ATLANTIC OSCILLATION
 Martin BENISTON

JSS01 Tuesday, July 1 PM

**HAGIWARA SYMPOSIUM ON MONITORING AND MODELING
 OF EARTHQUAKE AND VOLCANIC PROCESSES FOR
 PREDICTION (IASPEI, IAVCEI, IAG, IAGA)**
*Co-Sponsored by the National Research Institute for Earth Science
 and Disaster Prevention*
 Location: Site A, Room 3

Presiding Chair: K. Aki

1405 JSS01/01P/A03-001
 REPEATING EARTHQUAKES AND QUASI-STATIC SLIP ON THE PLATE
 BOUNDARY EAST OFF HONSHU, JAPAN
 Toru MATSUZAWA, Naoki UCHIDA, Toshihiro IGARASHI, Tomomi OKADA,
 Akira HASEGAWA

1430 JSS01/01P/A03-002
 A NEW MODEL OF THE EARTHQUAKE CYCLE AND STRESS ACCUMULATION
 OF INTRAPLATE EARTHQUAKES
 Yoshihisa IIO, Takeshi SAGIYA, Yoji KOBAYASHI

1455 JSS01/01P/A03-003
 INTERPRETATION OF VARIOUS SLIP MODES ON A PLATE BOUNDARY
 BASED ON LABORATORY AND NUMERICAL EXPERIMENTS
 Shingo YOSHIDA

1520 JSS01/01P/A03-004
 STATISTICAL MECHANICS APPROACHES TO THEMODELING AND
 FORECASTING OF NONLINEAR EARTHQUAKE PHYSICS AND DYNAMICS
 John B. RUNDLE

1545 BREAK

1605 JSS01/01P/A03-005
 LONG-TERM SEISMOGENESIS
 Frank F. EVISON, David A. RHOADES

1630 JSS01/01P/A03-006
 CONSTITUTIVE SCALING LAWS AND PHYSICAL MODELING OF THE
 PREPARATION PROCESS LEADING UP TO A LARGE EARTHQUAKE
 Mitiyasu OHNAKA

1655 JSS01/01P/A03-007
 NUMERICAL SIMULATION AND STATISTICAL PHYSICS OF CRUSTAL FAULT
 SYSTEMS
 Peter MORA, Dion WEATHERLEY, Bill KLEIN

1720 JSS01/01P/A03-008
 DEVELOPMENT OF A PHYSICS-BASED PREDICTIVE SIMULATION MODEL
 FOR CRUSTAL ACTIVITY IN AND AROUND JAPAN: TOWARD SCIENTIFIC
 FORECAST OF EARTHQUAKE GENERATION
 Mitsuhiro MATSU'URA

1745 JSS01/01P/A03-009
 CURRENT AND NEXT EARTHQUAKE PREDICTION RESEARCH PROGRAMS IN
 JAPAN
 Naoshi HIRATA

JSS02 Tuesday, July 1 PM

RECENT DESTRUCTIVE EARTHQUAKES (IASPEI, IAG)
 Location: Site A, Room 6

Presiding Chair: M. Gheitanchi

1400 JSS02/01P/A06-001
 SURFACE FAULTING AND AFTERSHOCKS ASSOCIATED WITH THE MW6.8
 UGLEGORSK EARTHQUAKE OF AUGUST 4, 2000 IN THE CENTRAL SAKHALIN
 ISLAND, RUSSIA
 Alexey I. IVASHCHENKO, Choon Oun KIM, Andrei I. KOZHURIN, Michael I.
 STRELTSOV, Tatiana A. FOKINA, Andrei A. YUST

1420 JSS02/01P/A06-002
 THE BHUJ EARTHQUAKE OF JAN 26, 2001 AND THE MARINE
 ARCHAEOLOGICAL DISCOVERIES IN CAMBAY, GUJARAT, INDIA
 Harsh GUPTA

1440 JSS02/01P/A06-003
 THE GHAENAT, IRAN EARTHQUAKE OF 10 MAY 1997
 Mahmood Mohammadhosseinzadeh GOLABCHI

1500 JSS02/01P/A06-004
 THE JUNE 22, 2002, AVAJ EARTHQUAKE SEQUENCE, IN NORTH-CENTRAL
 IRAN
 Mohammad Reza GHEITANCHI

1520 BREAK

1540 JSS02/01P/A06-005
 GENESIS AND EFFECTS OF THE MW 7.7 BHUJ EARTHQUAKE OF 2001
 Balkrishna RASTOGI, Prantik MANDAL

1600 JSS02/01P/A06-006
 RUPTURE PROCESS OF THE JANUARY 26, 2001, GUJARAT, INDIA, MS7.8
 EARTHQUAKE
 Lisheng XU, Yuntain CHEN, Gongwei ZHOU

1620 JSS02/01P/A06-007
 PRESENCE OF LARGE CRUSTAL STRAIN AROUND AN
 ASPERITY/HETEROGENEOUS BODY IN THE LOWER CRUST BENEATH
 KUTCH: A POSSIBLE EXPLANATION FOR THE OCCURRENCE OF 2001 BHUJ
 EARTHQUAKE SEQUENCE.
 Prantik MANDAL, Bal Krishna RASTOGI, H.V.S. SATYANARAYANA, M.
 KOUSALYA

1640 JSS02/01P/A06-008
 INDIA EARTHQUAKE OF 2001: MITIGATION, FAILURES AND LESSON LEARNT
 FOR FUTURE STRATEGIES
 Jay MITTAL

1700 JSS02/01P/A06-009
TOMOGRAPHIC EVIDENCE FOR IN SITU MATERIAL HETEROGENEITIES AT THE 2001 BHUJ EARTHQUAKE HYPOCENTER: A CAUSE OF RUPTURE NUCLEATION
O. P. MISHRA, Dapeng ZHAO, J. R. KAYAL

1720 JSS02/01P/A06-010
HIGH MAGNITUDE EARTHQUAKES SWARM IN SOUTHERN UZBEKISTAN (1999-2001) AND IT'S PROBABLE NATURE.
Bakhtiar S. NURTAEV, Lylya PLOTNIKOVA, Marina ZOTAGINA

JSV02-Posters Tuesday, July 1 PM

VOLCANISM AND THE EARTH'S ATMOSPHERE (IAVCEI, IAMAS)
Location: Site D

Presiding Chair: A. Robock

- 1400-050 JSV02/01P/D-001 Poster**
CHEMISTRY AND TEMPERATURE PERTURBATIONS DUE TO PINATUBO AEROSOLS CALCULATED BY A CHEMICAL-RADIATIVE COUPLED 1-D MODEL
Hideharu AKIYOSHI
- 1400-051 JSV02/01P/D-002 Poster**
THE IAVCEI LARGE ERUPTION DATABASE
Ben G. MASON, Paul COLE, Guido GIORNARNO, Clive OPPENHEIMER, David PYLE, Stephen SPARKS
- 1400-052 JSV02/01P/D-003 Poster**
ON THE INTENSITY ATMOSPHERIC VARIATIONS OF RADIO EMISSION FROM GALACTIC BACKGROUND OBSERVED DURING ERUPTIONS OF NYIROGONGO AND ETNA VOLCANOES
Khachik Haykazi MANASELYAN, Albert Garegini GHULYAN, Vagharshak Avetisi SANAMYAN, Radik Martirosi MARTIROSYAN
- 1400-053 JSV02/01P/D-004 Poster**
1932 QUIZAPU ERUPTION: THE IMPACT ON THE ATMOSPHERE AND ENVIRONMENT IN SOUTH AMERICA.
Oscar GONZALEZ-FERRAN, Alfredo LAHSEN, Francisca BROWN
- 1400-054 JSV02/01P/D-005 Poster**
SIZE-RESOLVED PARTICLE COMPOSITIONS OF THE TROPOSPHERIC PLUME OF MASAYA VOLCANO, NICARAGUA
Tamsin MATHER, Andrew ALLEN, Clive OPPENHEIMER, David PYLE, Andrew MCGONIGLE
- 1400-055 JSV02/01P/D-006 Poster**
VOLCANIC FIXATION OF ATMOSPHERIC NITROGEN AS A SOURCE OF NITRIC ACID?
Andrew ALLEN, Tamsin MATHER, Clive OPPENHEIMER, Brian DAVISON, David PYLE, Andrew MCGONIGLE
- 1400-056 JSV02/01P/D-007 Poster**
THE INFLUENCE OF LARGE VOLCANIC ERUPTIONS ON STRATOSPHERIC COMPOSITION AND DYNAMICS
Claudia TIMMRECK, Hans-F. GRAF, Benedikt STEIL
- 1400-057 JSV02/01P/D-008 Poster**
SIMULATION OF PINATUBO AEROSOLS BY USING A CCSR/NIES AGCM
Masayuki TAKIGAWA, Masaaki TAKAHASHI, Hideharu AKIYOSHI
- 1400-058 JSV02/01P/D-009 Poster**
GROUND AND SATELLITE OBSERVATIONS OF ERUPTIONS AND PLUMES AT SUWANOSEJIMA
Chikara KANAGAKI, Kisei KINOSHITA, Andrew TUPPER, Hiroshi YAKIWARA, Takahiro FUKUZUMI

JSV04-Posters Tuesday, July 1 PM

RECENT ADVANCES IN QUANTITATIVE VOLCANO SEISMOLOGY (IAVCEI, IASPEI)
Location: Site D

Convener: B. Chouet
Co-Convener: H. Kumagai

- 1400-059 JSV04/01P/D-001 Poster**
RE-CONSIDERATION OF THE EFFECT OF RECTIFIED DIFFUSION IN VOLCANIC-SEISMIC SYSTEMS
Mie ICHIHARA, Emily BRODSKY, Hiroo KANAMORI
- 1400-060 JSV04/01P/D-002 Poster**
SOURCE MECHANISMS OF VOLCANIC INDUCED SEISMICITY – MIYAKEJIMA, JAPAN, 2000
Sarah E. MINSON, Douglas S. DREGER
- 1400-061 JSV04/01P/D-003 Poster**
ACOUSTIC MEASUREMENTS OF THE 1999 BASALTIC ERUPTION OF SHISHALDIN VOLCANO, ALASKA: PRECURSORY TO SUBPLINIAN PHASE
Sylvie VERGNOLLE, Jackie CAPLAN-AUERBACH, Marie BOICHU

- 1400-062 JSV04/01P/D-004 Poster**
ACOUSTIC MEASUREMENTS OF THE 1999 SHISHALDIN ERUPTION, ALASKA : STROMBOLIAN ACTIVITY
Sylvie VERGNOLLE, Marie BOICHU, Jackie CAPLAN-AUERBACH
- 1400-063 JSV04/01P/D-005 Poster**
INFRASONIC EVENTS ACCOMPANYING SIX TYPES OF SEISMIC EVENTS AT SAKURAJIMA VOLCANO
Takayuki SAKAI
- 1400-064 JSV04/01P/D-006 Poster**
VERTICAL MULTIPLE SOURCE MODEL FOR DILATATIONAL MOTION OF EXPLOSION EARTHQUAKE AT SAKURAJIMA VOLCANO
Takeshi TAMEGURI, Masato IGUCHI
- 1400-065 JSV04/01P/D-007 Poster**
CHANGES IN TREMOR SOURCE LOCATION SYNCHRONIZED WITH AN AMPLITUDE MODULATION AT ASO VOLCANO, JAPAN
Noriaki TAKAGI, Satoshi KANESHIMA, Yasuaki SUDO, Takahiro OKURA, Shin YOSHIKAWA, Hitoshi KAWAKATU, Mare YAMAMOTO, Takehiko MORI
- 1400-066 JSV04/01P/D-008 Poster**
THE CHARACTER OF THE FOCAL ZONE OF THE EARTHQUAKE SWARM AT HAKONE VOLCANO IN 2001 OBTAINED BY THE ANALYSIS FOR SEISMIC WAVEFORM
Kei MURASE, Toshikazu TANADA
- 1400-067 JSV04/01P/D-009 Poster**
LOW FREQUENCY EARTHQUAKES EXCITED BY THE 2000 ERUPTIVE ACTIVITY OF USU VOLCANO
Kunikazu YOSHIDA, Tsutomu SASATANI
- 1400-068 JSV04/01P/D-010 Poster**
SEISMOLOGICAL FEATURES OF THE ACTIVE SUBMARINE VOLCANOES ON THE VOLCANIC FRONT OF THE IZU-OGASAWARA (BONIN)-MARIANA ARC
Azusa NISHIZAWA, Tomozo ONO, Yasuo OTANI
- 1400-069 JSV04/01P/D-011 Poster**
FOCAL MECHANISM OF VOLCANO-TECTONIC EARTHQUAKES AT MERAPI VOLCANO, INDONESIA
Sri HIDAYATI, Kazuhiro ISHIHARA, Ratdomopurbo , Masato IGUCHI
- 1400-070 JSV04/01P/D-012 Poster**
LOCATING LOW-FREQUENCY EARTHQUAKES USING AMPLITUDE SIGNALS: RESULTS FROM SYNTHETIC SEISMIC DATA
Arthur D. JOLLY, Philippe JOUSSET, Jorgen NEUBERG
- 1400-071 JSV04/01P/D-013 Poster**
AN IMAGE OF MAGMA INTRUSION PROCESS INFERRED FROM PRECISE HYPOCENTRAL MIGRATIONS OF EARTHQUAKE SWARM EAST OFF THE IZU PENINSULA
Yoshinari HAYASHI, Yuichi MORITA
- 1400-072 JSV04/01P/D-014 Poster**
THE MAGMA MIGRATION AROUND MIYAKE-JIMA ISLAND BY PRECISE HYPOCENTERS.
Shin'ichi SAKAI, Tomoaki YAMADA, Hiroko HAGIWARA, Toshihiko KANAZAWA
- 1400-073 JSV04/01P/D-015 Poster**
A MAGMA INTRUSION MODEL OF 2000 MIYAKE-JIMA ERUPTION DERIVED FROM CONTINUOUS GPS OBSERVATION
Shigeru NAKAO
- 1400-074 JSV04/01P/D-016 Poster**
THREE DIMENSIONAL VELOCITY STRUCTURE OFF THE ISLANDS OF MIYAKE-JIMA AND KOZU-SHIMA OBTAINED BY TRAVEL TIME ANALYSES
Hiroko HAGIWARA, Shin'ichi SAKAI, Tomoaki YAMADA, Toshihiko KANAZAWA
- 1400-075 JSV04/01P/D-017 Poster**
SUBSURFACE STRUCTURE BENEATH THE CENTRAL CONES OF ASO VOLCANO, CENTRAL KYUSHU, JAPAN, REVEALED WITH A SEISMIC EXPLORATION.
Tomoki TSUTSUI, Yasuaki SUDO
- 1400-076 JSV04/01P/D-018 Poster**
ATTENUATION STRUCTURE AROUND MT. USU VOLCANO, JAPAN, BY A DENSE SEISMIC OBSERVATION
Taka'aki TAIRA, Kiyoshi YOMOGIDA, Shin'ya ONIZAWA, Hiromitsu OSHIMA
- 1400-077 JSV04/01P/D-019 Poster**
CRUSTAL STRUCTURE OF THE TAAL VOLCANO DERIVED FROM THE EXPLOSION EXPERIMENT AND THE GRAVITY SURVEY
Fumihito YAMAZAKI, Takahiro OHKURA, Ryuichi SHICHI, Ishmael C. NARAG
- 1400-078 JSV04/01P/D-020 Poster**
STUDY OF THE VELOCITY STRUCTURE OF CRUST AND MANTLE IN THE ZONE OF ACTIVE VOLCANISM IN KAMCHATKA
Lidiy Borisovna SLAVINA, Natalia Borisovna PIVOVAROVA, Valentina Ivanovna LEVINA

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- 1400-079 JSV04/01P/D-021 Poster**
STUDY OF THE VELOCITY STRUCTURE OF CRUST AND MANTLE IN THE ZONE OF ACTIVE VOLCANISM IN KAMCHATKA.
Lidiya Borisovna SLAVINA, Nataliya Borisovna PIVOVAROVA
- 1400-080 JSV04/01P/D-022 Poster**
WAVE PROPAGATION IN VERY INHOMOGENEOUS MEDIA: STOCHASTIC SEISMIC MODELING AND ITS APPLICATION TO THE ACTIVE SEISMIC EXPERIMENTS AT VESUVIUS VOLCANO AND MERAPI VOLCANO
Ulrich WEGLER, Michael KORN
- 1400-081 JSV04/01P/D-023 Poster**
CRUSTAL DEFORMATION OF IWOJIMA VOLCANO DETECTED BY SAR INTERFEROMETRY AND GPS OBSERVATIONS
Hiroshi YARAI, Makoto MURAKAMI, Taku OZAWA, Mikio TOBITA, Hiroyuki NAKAGAWA, Satoshi FUJIWARA, Jun'ichi MIYAMOTO, Jun'ichi ITO, Kazunori YAMAGUCHI, Satoru NEMOTO
- 1400-082 JSV04/01P/D-024 Poster**
CRUSTAL DEFORMATION OF TAMBORA VOLCANO, INDONESIA, DERIVED FROM JERS-1 SAR INTERFEROMETRY
Taku OZAWA, Akira TAKADA, Makoto MURAKAMI



GAI.02 Tuesday, July 1 PM

NATURAL MAGNETIC MINERALS: MAGNETIC PROPERTIES, CHEMISTRY AND EVOLUTION
Location: Site A, Room 16

Presiding Chair: T. Kanamatsu

- 1400 GAI.02/01P/A16-001**
MAGNETIC PROPERTIES AND HEAVY METAL CONTENTS IN SOILS AND ROAD DUST OF KATHMANDU URBAN AREA, NEPAL - IMPLICATIONS FOR POLLUTION STUDIES
Pitambar GAUTAM, Ulrich BLAHA, Erwin APPEL
- 1420 GAI.02/01P/A16-002**
DETECTING SP GRAINS IN COPPER-SMELTING PLANT DUST ATMOSPHERIC EMISSIONS
Alla NULMAN, Viktor IVANCHENKO

1440 INTRODUCTION TO POSTERS

GAI.02-Posters Tuesday, July 1 PM

NATURAL MAGNETIC MINERALS: MAGNETIC PROPERTIES, CHEMISTRY AND EVOLUTION
Location: Site D

- 1600-102 GAI.02/01P/D-001 Poster**
MAGNETIC SUSCEPTIBILITY MAPPING OF GROUND POLLUTION IN PARKING AREA OF DAITO-BUNKA UNIV., AND OF MEJIRO-GAKUEN GIRLS' HIGH SCHOOL.
Mutsumi NAKAI, Tomoko OGISHIMA, Harumi SHIMAZAKI
- 1600-103 GAI.02/01P/D-002 Poster**
ROCK MAGNETIC STRATIGRAPHY OF SEDIMENTS FROM THE JAPAN TRENCH, ODP LEG 186
Toshiya KANAMATSU, Nobuaki NIITSUMA
- 1600-104 GAI.02/01P/D-003 Poster**
ROCK MAGNETIC STUDY ON ODP LEG 183 BASEMENT CORES
Xixi ZHAO, Maria ANTRETTTER, Peter SOLHEID, Hiroo INOKUCHI
- 1600-105 GAI.02/01P/D-004 Poster**
SELF-REVERSAL PTRM EVIDENCE FOUND IN SAKURAJIMA VOLCANIC ROCKS
Naoko UENO, Zhong ZHENG, Hirotomo UENO
- 1600-106 GAI.02/01P/D-005 Poster**
MAGNETIC PROPERTIES AND OPAQUE MINERALOGY OF SERPENTINIZED PERIDOTITES FROM IWANAI-DAKE AND MITSUISHI ULTRAMAFIC ROCK BODIES, HOKKAIDO, JAPAN
Rie MORIJIRI, Mitsuru NAKAGAWA
- 1600-107 GAI.02/01P/D-006 Poster**
ROCK-MAGNETIC AND OXIDE MICROSCOPY COMPARISON AMONG THE MAGNETITE-APATITE ORE DEPOSITS FROM CHILE AND MEXICO: GEOPHYSICAL AND GENETIC IMPLICATIONS
Luis ALVA-VALDIVIA, Maria RIVAS, Avto GOGICHAISHVILI, Jaime URRUTIA-FUCUGAUCHI

- 1600-108 GAI.02/01P/D-007 Poster**
RECONNAISSANCE ARCHEOMAGNETIC STUDY FROM SOME PRE-COLUMBIAN PAINTINGS IN MEXICO
Avto GOGICHAISHVILI, Ana-Maria SOLER, Elena ZANELLA, Giacomo CHIARI, Roberto LANZA, Jaime URRUTIA-FUCUGAUCHI
- 1600-109 GAI.02/01P/D-008 Poster**
MAGNETIC AND MINERALOGICAL SIGNATURE OF ANTHROPOGENIC PHASES OF SOIL PROFILES IN UPPER SILESIA/POLAND
Lorene SCHIBLER, Erwin APPEL, Zygmunt STRZYSZCZ, Viktor HOFFMANN, Wolfgang ROESLER

GAI.05 Tuesday, July 1 PM

OBSERVATIONAL CONSTRAINTS ON FIELD BEHAVIOR: (PALEO) SECULAR VARIATION, PALEOINTENSITY, REVERSAL FREQUENCY AND AGE DATING (SEDI)
Location: Site A, Room 8

Presiding Chair: J. P. Valet

- 1400 GAI.05/01P/A08-001**
THE EARTH'S MAGNETIC FIELD IS PRIMARILY DIPOLAR
Vincent E. COURTILLOT, Jean BESSE, Jean-Pascal COGNE, Gilder STUART
- 1430 GAI.05/01P/A08-002**
INTENSITY-INCLINATION CORRELATION ON LONG-TERM SECULAR VARIATION RECORDS AND ITS RELEVANCE TO PERSISTENT NON-DIPOLE COMPONENTS
Toshitsugu YAMAZAKI, Hirokuni ODA
- 1450 GAI.05/01P/A08-003**
PAST 5 MA GEOMAGNETIC FIELD INTENSITIES INFERRED FROM THE PALEOMAGNETISM OF THE SOCIETY ISLANDS, FRENCH POLYNESIA
Yuhji YAMAMOTO, Kozo UTO, Masafumi SUDO, Hideo TSUNAKAWA
- 1510 GAI.05/01P/A08-004**
LONG-TERM CHANGES IN FIELD INTENSITY
Jean-Pierre M. VALET, Mélina M. MACOULIN, Jean J. BESSE
- 1530 GAI.05/01P/A08-005**
REPRODUCIBILITY OF THE PALEOINTENSITY MEASUREMENTS USING ASO VOLCANIC ROCKS.
Yusuke HAMADA, Hidetoshi SHIBUYA

1550 BREAK

- 1620 GAI.05/01P/A08-006**
TOWARDS A SELF-CONSISTENT APPROACH TO PALEOMAGNETIC FIELD MODELING, STEP II.
Andrei KHOKHLOV, Gauthier HULOT
- 1640 GAI.05/01P/A08-007**
PALEOMAGNETIC INTENSITY DATA AS A TIME SERIES: OBSERVATION OF PARAMETRIC INSTABILITIES IN EARTH'S FLUID CORE?
Ross Eugene BAKER, Keith Douglas ALDRIDGE
- 1700 GAI.05/01P/A08-008**
MICROWAVE PALAEOINTENSITIES DURING GEOMAGNETIC FIELD REVERSALS
John SHAW, Mimi J. HILL, Roman LEONHARDT, Emilio HERRERO-BERVERA
- 1720 GAI.05/01P/A08-009**
MICROWAVE PALEOINTENSITY DETERMINATION ON HISTORIC PARICUTIN VOLCANO LAVA FLOWS, CENTRAL MEXICO
Avto GOGICHAISHVILI, Martin N. GRATTON, Juan MORALES, Luis ALVA-VALDIVIA, Jaime URRUTIA-FUCUGAUCHI, John SHAW
- 1740 GAI.05/01P/A08-010**
PALAEOINTENSITY RESULTS FROM TERTIARY INTRUSIVE ROCKS FROM THE SYDNEY BASIN: A COMPARISON OF THE MODIFIED-CONVENTIONAL AND MICROWAVE THELLIER METHODS
Mimi J. HILL, D. Neil THOMAS

GAI.09 Tuesday, July 1 PM

ELECTRICAL AND ELECTROMAGNETIC STUDIES IN GEOTHERMALLY ACTIVE REGIONS
Location: Site A, Room 15

Presiding Chair: J. Zlotnicki

- 1400 GAI.09/01P/A15-001**
GEOELECTRICAL AND GRAVITY MODEL OF THE NARMODA-SON LINEAMENT ALONG THE KHANDWA UJJAIN TRAVERSE, MADHYA PRADESH, INDIA
Kalyan Kumar ROY, L.K. DAS, D.C. NASKAR, R.K. MAJUMDAR, S. SRIVASTAVA, N.S.R. MURTHY

1415 GAI.09/01P/A15-002

IDENTIFYING THERMAL ANOMALIES FROM THE DEVELOPMENT OF ELECTRICAL SIGNATURES ALONG MOBILE BELTS REACTIVATED BY THE TRAIL AND OUTBURST OF MANTLE PLUME: EVIDENCES FROM THE INDIAN SUBCONTINENT
Veeraswamy KOPPIREDDI, Harinarayana T.

1430 GAI.09/01P/A15-003

THEORY OF EM MONITORING OF SEA BOTTOM GEOTHERMAL AREAS
Oleg Bencionovith NOVIK, Sergey Valentinovitch ERSHOV, Irina Borisovna MIKHAYLOVSKAYA

1445 GAI.09/01P/A15-004

WEST COEAST THERMAL ANOMALY ZONE OF WESTERN INDIA: A POSSIBLE GEOTHERMAL ENERGY PROSPECT
Om Prakash PANDEY, P.K. AGRAWAL

1500 GAI.09/01P/A15-005

IMPLICATIONS OF TECTONIC PROCESSES OF THE ELECTRICAL CONDUCTORS IN NORTH AND EASTERN INDIA AND DISTRIBUTION OF FLUIDS
Vijay K. RAO, S.N. PRASAD

1515 GAI.09/01P/A15-006

THREE DIMENSIONAL INTERPRETATION FOR SINGLE-HOLE ELECTROMAGNETIC DATA
Hung-Wen TSENG, Ki Ha LEE, Michael J. WILT

GAI.02-Posters Tuesday, July 1 PM

DYNAMICS, ENERGETICS AND STRUCTURE OF THE MESOSPHERE-THERMOSPHERE-IONOSPHERE REGION
Location: Site D

Convener: J. Roettger

1600-110 GAI.02/01P/D-001 Poster

NONMIGRATING TIDES AS MEASURED BY THE SABER INSTRUMENT ON TIMED DURING APRIL-MAY, 2002
Jeffrey FORBES, J. RUSSELL, Xiaoli ZHANG, S. MIYAHARA, Scott E. PALO, S. MIYOSHI, C. MERTENS, M. MLYNCZAK, R. GARCIA

1600-111 GAI.02/01P/D-002 Poster

PERSISTENCE OF THE PLANETARY WAVE TYPE OSCILLATIONS IN FOF2 AT NORTHERN MIDDLE LATITUDES
Jan LASTOVICKA, Peter KRIZAN, Petra SAULI

1600-112 GAI.02/01P/D-003 Poster

OBSERVATIONS OF PLANETARY WAVES BY AIRGLOW EMISSIONS AND METEOR WIND AT SITES OF EQUATORIAL AND LOWER LATITUDES IN SOUTHERN HEMISPHERE
Lourivaldo Mota LIMA, Hisao TAKAHASHI, Paulo Prado BATISTA, Robert Barclay CLEMESHA, Delano GOOBI, Ricardo A. BURITI, Takuji NAKAMURA, Toshitaka TSUDA

1600-113 GAI.02/01P/D-004 Poster

WIND OBSERVATION BY NEWLY DEVELOPED FOIL CHAFF INSTLMENTS AROUND THE MESOPAUSE
Yoshiko KOIZUMI, Koh-Ichiro OYAMA, Yasuhiro MURAYAMA

1600-114 GAI.02/01P/D-005 Poster

NUMERICAL SIMULATION OF 3D FLOW AROUND SOUNDING ROCKET IN THE LOWER THERMOSPHERE
Junichi KURIHARA, Koh-ichiro OYAMA, Takashi ABE, Naomoto IWAGAMI

1600-115 GAI.02/01P/D-006 Poster

METEOR TRAIN OBSERVATION CAMPAIGN IN JAPAN DURING 1998-2002
Masa-yuki YAMAMOTO, Masayuki TODA, Yoshihiro HIGA, Mitsuhiro FUJITA

1600-116 GAI.02/01P/D-007 Poster

STATISTICAL CHARACTERISTICS OF MESOSPHERIC GRAVITY WAVES OBSERVED BY AN ALL-SKY IMAGER AT DARWIN
Shin SUZUKI, Kazuo SHIOKAWA, Yuichi OTSUKA, Tadahiko OGAWA, P. WILKINSON

1600-117 GAI.02/01P/D-008 Poster

CLIMATOLOGY OF ATMOSPHERIC GRAVITY WAVE PROPAGATION OBSERVED IN EQUATORIAL AND MIDDLE LATITUDES REGIONS
Cristiano Max WRASSE, Takuji NAKAMURA, Toshitaka TSUDA, Hisao TAKAHASHI, Delano GOBBI, Amauri Fragoso MEDEIROS, Ricardo Arlen BURITI, Michel J. TAYLOR, E. ACHMAD, A. SALATUN, Suratno

1600-118 GAI.02/01P/D-009 Poster

CHARACTERIZATION OF SHORT PERIOD GRAVITY WAVES DETECTED QUASI-SIMULTANEOUSLY AT 3 AIRGLOW EMISSIONS AT CARIRI (7°S, 36°W).
Ricardo Buriti ARLEN, Amauri Fragoso MEDEIROS, Hisao TAKAHASHI, Delano GOBBI

1600-119 GAI.02/01P/D-010 Poster

GRAVITY WAVE CHARACTERISTICS USING UNAMBIGUOUS 2-D SPECTRUM ANALYSIS FOR OH AIRGLOW IMAGE DATA
Delano GOBBI, F.A. SANTOS, H. TAKAHASHI, A.F. MEDEIROS, R.A. BURITI

1600-120 GAI.02/01P/D-011 Poster

PARAMETERIZATION OF INTERNAL GRAVITY WAVE USING ELECTRON DENSITY AND ATOMIC OXYGEN DENSITY PROFILES OBTAINED FROM THE ROCKET EXPERIMENT
Reiko YOSHIMURA, Koh-Ichiro OYAMA, Takeshi IMAMURA, Naomoto IWAGAMI

1600-121 GAI.02/01P/D-012 Poster

WAVE2004: WAVES IN AIRGLOW CAMPAIGN IN 2004
Naomoto IWAGAMI, Minoru KUBOTA, Ko-ichiro OYAMA

1600-122 GAI.02/01P/D-013 Poster

USING RIOMETRY TO OBSERVE MESOSPHERIC GRAVITY WAVES
Martin J. JARVIS, Robert E. HIBBINS, Michael J. TAYLOR, Theodore J. ROSENBERG

1600-123 GAI.02/01P/D-014 Poster

OBSERVATIONS OF MESOSPHERIC WAVES IN THE NORTHERN HIGH LATITUDE
Young-In WON, Patrick J. ESPY, Jong-Kyun CHUNG, Yeaddong KIM

1600-124 GAI.02/01P/D-015 Poster

THE RELATIONSHIP BETWEEN ELECTRIC CONDUCTIVITY, FIELD AND CURRENTS IN THE IONOSPHERE AND THE GEOMAGNETIC SQ FIELD
Masahiko TAKEDA, Toshihiko IYEMORI, Akinori SAITO

1600-125 GAI.02/01P/D-016 Poster

AN ESTIMATION OF TWO-DIMENSIONAL DISTRIBUTIONS OF AURORA ELECTRON ENERGY PARAMETERS USING AURORA ALL-SKY IMAGES
Minoru KUBOTA, Tsuyoshi ITAMI, Dirk LUMMERZHEIM, Shin-ichiro OYAMA, Mamoru ISHII, Yasuhiro MURAYAMA, Satoshi TAGUCHI, Takashi OKUZAWA

1600-126 GAI.02/01P/D-017 Poster

TEST RESULTS OF AN ALL-SKY CAMERA INVERSION METHOD
Noora J. PARTAMIES, Pekka JNAHUNEN, Eric DONOVAN, Kirsti KAURISTIE

1600-127 GAI.02/01P/D-018 Poster

THERMOSPHERIC WIND AND TEMPERATURE MEASUREMENTS BY A FABRY-PEROT IMAGER AT SYOWA STATION, ANTARCTICA
Makoto TAGUCHI, Shoichi OKANO, Masaki EJIRI

1600-128 GAI.02/01P/D-019 Poster

COMPARATIVE ANALYSIS OF THE COSMIC RADIO NOISE ABSORPTION AND THE MONOCHROMATIC AURORAL LUMINOSITY FOR ENERGY ESTIMATION OF THE PRECIPITATED ELECTRONS IN THE POLAR IONOSPHERE
Hirotaka MORI, Mamoru ISHII, Yasuhiro MURAYAMA, Minoru KUBOTA, Masa-yuki YAMAMOTO, Shin-ichiro OYAMA, Kazuyo SAKANOI, Yoshizumi MONZEN, Roger W. SMITH, Dirk LUMMERZHEIM

1600-129 GAI.02/01P/D-020 Poster

VERTICAL THERMOSPHERIC STRUCTURE DURING NEGATIVE IONOSPHERIC STORMS
Robert E. DANIELL, Alan G. BURNS, Douglas J. STRICKLAND, Wenbin WANG

1600-130 GAI.02/01P/D-021 Poster

THERMOSPHERIC WIND DURING A STORM-TIME LARGE-SCALE TRAVELING IONOSPHERIC DISTURBANCE
Kazuo SHIOKAWA, Yuichi OTSUKA, Tadahiko OGAWA, Seiji KAWAMURA, Mamoru YAMAMOTO, Shoichiro FUKAO, Takuji NAKAMURA, Toshitaka TSUDA, Nanan BALAN, Kiyoshi IGARASHI, Gang LU

1600-131 GAI.02/01P/D-022 Poster

STATISTICAL STUDY OF LARGE-SCALE TRAVELNG IONOSPHERIC DISTURBANCES USING THE GEONET TOTAL ELECTRON CONTENT DATA
Takuya TSUGAWA, Akinori SAITO, Yuichi OTSUKA

1600-132 GAI.02/01P/D-023 Poster

A COMPARISON OF THE EFFECTS OF GRAVITY WAVES AND THE IONOSPHERE ON THE MESOSPHERE LOWER THERMOSPHERE REGION
Scott Leslie ENGLAND, Alison DOBBIN, Neil ARNOLD, Alan AYLWARD

1600-133 GAI.02/01P/D-024 Poster

OBSERVATIONS OF EQUATORIAL PLASMA DEPLETIONS IN THE OI 630 NM AIRGLOW AT KOLHAPUR IN INDIA
Girija Kumar MUKHERJEE

1600-134 GAI.02/01P/D-025 Poster

FORMATION AND DYNAMICS OF SPORADIC E-LAYERS THROUGHOUT SUNSET-TO-SUNRISE HOURS AS OBSERVED BY API TECHNIQUE
Nataliya V. BAKHMET'EVA, Vitold V. BELIKOVICH, Ludmila M. KAGAN, Alexey A. PONYATOV

WEEK
A
TUE
PM

GAIL.03**Tuesday, July 1 PM****MEASUREMENT TECHNIQUES IN THE MIDDLE/UPPER ATMOSPHERE AND IONOSPHERE (IAGA, ICMA)**

Location: Site A, Room 13

Presiding Chairs: A.S. Yukimatsu, R.S. Vincent

1400 GAIL.03/01P/A13-001

RECENT ADVANCES IN MEASUREMENT TECHNIQUES AND CAPABILITIES WITH INCOHERENT SCATTER RADARS

Anthony VAN EYKEN, Gudmund WANNBERG, Tauno TURUNEN, Assar WESTMAN, Ingemar HAGGSTROM, Mike RIETVELD

1435 GAIL.03/01P/A13-002

COORDINATED INTERFEROMETRIC RADAR AND OPTICAL OBSERVATIONS OF FINE STRUCTURE IN AURORA

Tom GRYDELAND, Erik M. BLIXT, Cesar LA HOZ, Tor HAGFORS, Susumu SAITO

1455 GAIL.03/01P/A13-003

OBSERVATIONS OF NEUTRAL WINDS AND ELECTRIC FIELDS USING BACKSCATTER FROM FIELD-ALIGNED IRREGULARITIES

Ludmila M. KAGAN, Shoichiro FUKAO, Mamoru YAMAMOTO, Balaram RAO

1515 GAIL.03/01P/A13-004

APPLICATION OF SINGULAR VALUE DECOMPOSITION ALGORITHM FOR OPTIMISING THE RECEIVER NETWORK FOR RAY TOMOGRAPHY OVER INDIAN LONGITUDES

Smitha V. THAMPI, Tarun K. PANT, Sudha RAVINDRAN, R. SRIDHARAN, C.V. DEVASIA, C. Raghava REDDI, P. SREELATHA

1535 BREAK**1600 GAIL.03/01P/A13-005**

METEOR TECHNIQUES IN MIDDLE ATMOSPHERE STUDIES

Wayne Keith HOCKING

1635 GAIL.03/01P/A13-006

NEW SUPERDARN RAW TIME SERIES ANALYSIS METHOD AND ITS POSSIBLE APPLICATIONS TO UPPER AND MIDDLE ATMOSPHERE RESEARCHES

Akira Sessai YUKIMATU, Masaki TSUTSUMI, Hisao YAMAGISHI, Natsuo SATO

1655 GAIL.03/01P/A13-007

DIFFERENTIAL ABSORPTION MEASUREMENTS USING THE BUCKLAND PARK MF RADAR

Rupa VUTHALURU, David A. HOLDSWORTH, Robert A. VINCENT, Iain M. REID

1715 GAIL.03/01P/A13-008

MID-LOW LATITUDE ELECTRON DENSITIES IN THE NIGHTTIME D-REGION IONOSPHERE DURING MAGNETIC STORMS DEDUCED FROM TWEAK ATMOSPHERICS

Hiroyo OHYA, Masanori NISHINO, Yasuhiro MURAYAMA, Kiyoshi IGARASHI

GAIL.02**Tuesday, July 1 PM****WHAT ROLE DO WAVES PLAY IN TRANSPORT AND ACCELERATION OF RING CURRENT AND RADIATION BELT PARTICLES?**

Location: Site A, Room 7

Presiding Chairs: C. Rodger, A.J. Smith

1400 GAIL.02/01P/A07-001**Invited**

RADIAL TRANSPORT OF ENERGETIC ELECTRONS IN THE OUTER ZONE THROUGH INTERACTION WITH ULF WAVES

Scot R. ELKINGTON, Anthony A. CHAN, Yue FEI, Daniel N. BAKER, Mary K. HUDSON

1430 GAIL.02/01P/A07-002**Invited**

DIFFERENTIATING BETWEEN ULF AND VLF WAVE RELATIVISTIC ELECTRON ACCELERATION MECHANISMS USING THE RADIAL PROFILE OF ELECTRON PHASE SPACE DENSITY

Janet C. GREEN, Margaret G. KIVELSON

1500 GAIL.02/01P/A07-003

CONTRIBUTION OF WHISTLER MODE CHORUS TO ACCELERATION PROCESS OF RELATIVISTIC ELECTRONS DURING MAGNETIC STORMS

Yoshiya KASAHARA, Hiroki UCHIYAMA, Yoshitaka GOTO, Toru SATO

1520 GAIL.02/01P/A07-004

GEOMAGNETIC STORM ASSOCIATED ELF/VLF CHORUS OBSERVED AT AN ANTARCTIC GROUND STATION

A.J. SMITH, N.P. MEREDITH, R.B. HORNE

1540 BREAK**1600 GAIL.02/01P/A07-005**

THE ENERGETIC ELECTRON RESPONSE TO MAGNETIC STORMS: COMBINED HIGH AND LOW ALTITUDE OBSERVATIONS

Joseph F. FENNEL, J.B. BLAKE, T.P. O'BRIEN, R.S. SELESNICK, R. FRIEDEL, S. KANEKAL

1620 GAIL.02/01P/A07-006

LOSS OF RADIATION BELT ELECTRONS

Terrance G. ONSAGER, Janet C. GREEN, Howard J. SINGER, Geoffrey D. REEVES

1640 GAIL.02/01P/A07-007

VARIATION IN INNER RADIATION BELT ELECTRON LIFETIMES DUE TO WHISTLER-INDUCED ELECTRON PRECIPITATION (WEP) DRIVEN LOSSES

Craig J. RODGER, Mark A. CLILVERD, Robert J. MCCORMICK

1700 GAIL.02/01P/A07-008

ELECTROMAGNETIC ION CYCLOTRON WAVES AND DETACHED PLASMA REGIONS IN THE MAGNETOSPHERE

Brian J. FRASER, R.R. ANDERSON

1720 GAIL.02/01P/A07-009

EFFECTS OF WAVE-PARTICLE INTERACTIONS ON RING CURRENT EVOLUTION DURING THE OCTOBER 2001 GEOMAGNETIC STORM

V.K. JORDANOVA, Y. MIYOSHI, M.F. THOMSEN, G.D. REEVES, D.S. EVANS

1740 GAIL.02/01P/A07-010

MODELING THE DRIFT-BOUNCE RESONANCE INTERACTION BETWEEN ENERGETIC RING CURRENT PROTONS AND GUIDED POLOIDAL ALFVEN WAVES

Louis Godwin OZEKE, Ian Robert MANN

GAIL.04-Posters**Tuesday, July 1 PM****WHAT ARE THE STRUCTURES AND DYNAMICS OF THE MAGNETOPAUSE AND ITS BOUNDARY LAYERS?**

Location: Site D

Convener: H. Kawano

1400-149 GAIL.04/01P/D-001**Poster**

GROUND AND SATELLITE OBSERVATIONS OF PC 1-2 WAVES ON OPEN FIELD LINES POLEWARD OF THE DAYSIDE CUSP

Mark J. ENGBRETSON, T.G. ONSAGER, D.E. ROWLAND, R.E. DENTON, S.P. GARY, J.L. POSCH, C.T. RUSSELL, R.L. ARNOLDY, H. FUKUNISHI

1400-150 GAIL.04/01P/D-002**Poster**

CHARACTERISTICS OF THE GEOSYNCHRONOUS MAGNETOPAUSE CROSSING EVENT ON NOVEMBER 7, 2002

Kentaro KITAMURA, Tomokazu AOKI, Hideaki KAWANO, Kiyohumi YUMOTO

1400-151 GAIL.04/01P/D-003**Poster**

MEDELLING OF CONDITIONS NEAR THE MAGNETOPAUSE

Eugene ROMASHETS, Tsutomu NAGATSUMA

1400-152 GAIL.04/01P/D-004**Poster**

ELECTRODYNAMICS OF MESO-SCALE PLASMA PENETRATION STRUCTURES IN THE DAYSIDE BOUNDARY LAYER.

Rickard N.A. LUNDIN, Mats ANDRE, J.-A. SAUVAUD, H. REME, A. BALOGH, M. YAMAUCHI, L. ELIASSON, N. N.

GAIL.12**Tuesday, July 1 PM****HOW DOES MULTI-POINT MONITORING PROBE MULTIPLE SPATIAL AND TEMPORAL SCALES IN THE MAGNETOSPHERE?**

Location: Site A, Room 10

Presiding Chairs: Z. Pu, B. Lavraud

1400 GAIL.12/01P/A10-001**Invited**

A BRIEF INTRODUCTION TO GEOSPACE DOUBLE STAR PROGRAM

Z.X. LIU

1425 GAIL.12/01P/A10-002**Invited**

RECONSTRUCTION OF TWO-DIMENSIONAL MAGNETOPAUSE STRUCTURES BASED ON MULTISPACECRAFT INFORMATION FROM CLUSTER

Hiroshi HASEGAWA, Bengt U.O. SONNERUP, Malcolm W. DUNLOP, Andre BALOGH, Stein HAALAND, Berndt KLECKER, Goetz PASCHMANN, Iannis DANDOURAS, Benoit LAVRAUD, Henri REME

1450 GAIL.12/01P/A10-003

ANALYSES ON THE GEOMETRICAL STRUCTURE OF MAGNETIC FIELD IN THE CURRENT SHEET BASED ON CLUSTER MEASUREMENTS

Chao SHEN, Xinlin LI, M.W. DUNLOP, Z.X. LIU, A. BALOGH, D.N. BAKER, M. HAPGOOD, X.Y. WANG

1505 GAIL.12/01P/A10-004

MULTIPOINT COMPARISON OF CLUSTER EDI AND SUPERDARN MEASUREMENTS OF EXB PLASMA DRIFT

Joseph B. BAKER, Raymond A. GREENWALD, Matthias FOERSTER, Goetz PASCHMANN, Eric F. DONOVAN, Nikolai A. TSYGANENKO, Jack M. QUINN

1520 GAIII.12/01P/A10-005

MULTIPOINT OBSERVATION OF THE BOUNDARY OF THE PLASMASPHERE: CLUSTER OBSERVATIONS

Fabien DARROUZET, Pierrette M.E. DÉCRÉAU, Joseph LEMAIRE, Arnaud MASSON, Emmanuel LE GUIRRIEC, Jean Gabriel TROTIGNON, Jean Louis RAUCH, Patrick CANU, Francis SEDGEMORE, Mats ANDRE

1535 GAIII.12/01P/A10-006

CLUSTER OBSERVATIONS OF TRANSIENT SHARP BOUNDARY BETWEEN THE INNER MAGNETOSPHERE AND ACTIVE OUTER PLASMA SHEET

Victor A. SERGEEV, J.-A. SAUVAUD, H. REME, A. BALOGH, P. DALY, Q.-G. ZONG, V. ANGELOPOULOS, M. ANDRE, A. VAIVADS

1550 BREAK

1605 GAIII.12/01P/A10-007 Invited

MULTIPOINT ENERGETIC PARTICLE OBSERVATIONS OF THE MAGNETOTAL USING COMBINED CLUSTER, POLAR AND GEOTAIL OBSERVATIONS

Manuel GRANDE, Chris PERRY, Malcolm DUNLOP, Jackie DAVIES

1630 GAIII.12/01P/A10-008

SOURCE DIMENSION OF CHORUS EMISSIONS OBSERVED BY THE CLUSTER SATELLITES

Michel J. PARROT, Ondrej SANTOLIK, Nicole CORNILLEAU-WEHRLIN, Milan MAKSIMOVIC, Chris HARVEY

1645 GAIII.12/01P/A10-009

MULTI-POINT ELECTRIC FIELD MEASUREMENTS AT THE EARTH'S QUASI-PARALLEL BOW SHOCK

Rico BEHLKE, Mats ANDRÉ, Stephan C. BUCHERT, Andris VAIVADS, Anders I. ERIKSSON, Elizabeth A. LUCEK, Andre BALOGH

1700 GAIII.12/01P/A10-010

TIME AND LENGTH SCALES OF VARIATIONS IN THE QUASI-PERPENDICULAR TERRESTRIAL BOWSHOCK

Timothy HORBURY, Elizabeth LUCEK, Andre BALOGH, Iannis DANDOURAS

1715 GAIII.12/01P/A10-011

CLUSTER-RAPID OBSERVATIONS OF A HOT FLOW ANOMALY

Joseph F. FENNELL, M. DUNLOP, J.L. ROEDER, A. KORTH, C. PERRY, M. CARTER, P. DALY

1730 GAIII.12/01P/A10-012

SOLITARY WAVES OBSERVED BY CLUSTER AND ACE IN SOLAR WIND COMPRESSION REGIONS

Markus FRAENZ, I. DANDOURAS, A.N. FAZAKERLEY, V. GENOT, T.S.HORBURY, A. KORTH, O. MOULLARD, H. REME, C.W. SMITH

1745 GAIII.12/01P/A10-013

ENERGETIC IONS AND ELECTRONS UPSTREAM FROM THE EARTH'S BOW SHOCK AND WITHIN THE MAGNETOSPHERE

J.L. ROEDER, J.F. FENNELL, J.B. BLAKE, P.W. DALY, M. CARTER, C. PERRY

GAIV.01

Tuesday, July 1 PM

THE DYNAMIC SUN, ITS ATMOSPHERE AND WIND

Location: Site A, Room 11

Presiding Chairs: D. Berghmanns, L. Fletcher

1400 GAIV.01/01P/A11-001 Invited

RECENT RESULTS FROM RHESI

Säm KRUCKER, the RHESI Team

1430 GAIV.01/01P/A11-002

IMAGING OBSERVATIONS OF A SOLAR FLARE WITH RHESI AND NOBEYAMA RADIO HELIOGRAPH

Satoshi MASUDA, Sam KRUCKER, Takaaki YOKOYAMA, Masumi SHIMOJO

1450 GAIV.01/01P/A11-003 Invited

ENERGETIC PARTICLES AND MAGNETIC FIELDS IN THE SOLAR CORONA: PROBING THE LINK.

Lyndsay FLETCHER

1520 GAIV.01/01P/A11-004

MICROFLARE HEATING IN ACTIVE REGIONS AND THE QUIET SUN:A REVIEW OF RECENT RESULTS

Säm KRUCKER

1540 BREAK

1610 GAIV.01/01P/A11-005 Invited

A NEW SOLAR FLARE SCENARIO: HIGH-BETA PLASMA DISRUPTION

Kiyoto SHIBASAKI

1640 GAIV.01/01P/A11-006

FORCE-FREE MAGNETIC FIELD CONFIGURATION INSIDE TOROIDAL SOLAR FLUX ROPES

Eugene ROMASHETS, Marek VANDAS

1700 GAIV.01/01P/A11-007

FLUX ROPE ACCELERATION AND SOLAR FLARES

C.Z. CHENG, Y. REN, G.S. CHOE

1720 GAIV.01/01P/A11-008

MACROSTRUCTURE AND DYNAMICS OF ACTIVE REGIONS AND CORONAE OF THE SUN1. ANALYSIS

Hiroshi WATANABE, Syun-Ichi AKASOFU, Takao SAITO

GAV.01

Tuesday, July 1 PM

GLOBAL GEOMAGNETIC OBSERVATORY: TOWARDS A BETTER NETWORK OF GEOMAGNETIC OBSERVATIONS

Location: Site A, Room 12

Presiding Chair: J.L. Rasson

1400 GAV.01/01P/A12-001

THE CANADIAN MAGNETIC OBSERVATORY NETWORK - FUTURE DIRECTIONS

Lawrence Richard NEWITT, Benoit ST-LOUIS

1420 GAV.01/01P/A12-002

ADVANCES IN MAGNETIC OBSERVATORY AND REPEAT SURVEY OPERATIONS AT THE AUSTRALIAN OBSERVATORY NETWORK

Peter G. CROSTHWAITE, Andrew M. LEWIS, Liejun WANG, PeterA. HOPGOOD, Charles E. BARTON

1440 GAV.01/01P/A12-003

EUROPEAN GEOMAGNETIC REPEAT STATION NETWORK

Monika KORTE, Mioara MANDEA

1500 GAV.01/01P/A12-004

TOWARD BETTER NETWORK OF GROUND GEOMAGNETIC OBSERVATORIES, REPEAT STATIONS AND ITS PROBLEM

Hendar Gunawan GUNAWAN, Ibrahim Limer LIMER

1520 BREAK

1540 GAV.01/01P/A12-005

THE JAPANESE-RUSSIAN-USA COOPERATIVE PROJECT TOWARD A BETTER NETWORK OF THE GEOMAGNETIC AE OBSERVATORIES IN SIBERIA

Toyohisa KAMEI, Oleg TROSHICHEV, Julius ZETZER, Ching MENG, Takashi KIKUCHI, Manabu KUNITAKE, Kazue TAKAHASHI, Tohru ARAKI, Toshihiko IYEMORI, Masahito NOSE, Roger SMITH

1600 GAV.01/01P/A12-006

THE OPERATION AND QUALITY CONTROL OF THE MAGNETIC OBSERVATORIES SPONSORED BY THE CSB

Dongmei YANG

1620 GAV.01/01P/A12-007

GEOMAGNETIC INVESTIGATIONS CARRIED OUT WITH USING THE UKRAINIAN OBSERVATORY DATA

Mikhail I. ORLYUK

GAV.02-Posters

Tuesday, July 1 PM

GEOMAGNETIC INDICES: REAL-TIME PRODUCTION AND FORECASTING

Location: Site D

Convener: C. Balch

Co-Convener: N. Nagarajan

1400-153 GAV.02/01P/D-001 Poster

VIRTUAL MAGNETOGRAMS - NEW TOOL FOR THE MONITORING OF SOLAR WIND-MAGNETOSPHERE COUPLING

Viacheslav A. PILIPENKO, Olga KOZYREVA, Mark ENGBRETSON, Kiyohumi YUMOTO

1400-154 GAV.02/01P/D-002 Poster

WAVELET ANALYSIS OF THE GEOMAGNETIC INDEX AA

Ezequiel ECHER, Walter Demetrio GONZALEZ, Alicia Luisa Clua GONZALEZ, Luis Eduardo Antunes VIEIRA, Alisson DAL LAGO, Fernando Luis GUARNIERI, Nelson Jorge SCHUCH

1400-155 GAV.02/01P/D-003 Poster

SSC DETECTION TODAY

Juan Jose CURTO, Estefania BLANCH, Josep Oriol CARDUS, Luis Felipe ALBERCA

1400-156 GAV.02/01P/D-004 Poster

CORRECTION OF GEOMAGNETIC POLAR INDICES

Nikolai A. BARKHATOV, Alexey V. KOROLEV, Anatoly E. LEVITIN

1400-157 GAV.02/01P/D-005 Poster

FORECASTING GEOMAGNETIC INDICES AT THE NOAA SPACE ENVIRONMENT CENTER

Christopher C. BALCH

1400-158 GAV.02/01P/D-006 Poster

THE POSSIBILITY OF MAGNETIC STORMS PREDICTION DUE TO ANALYSIS OF SOLAR WIND DATA

Olga Valerievna KHABAROVA, Eugeny Antonovich RUDENCHIK

**WEEK
A
TUE
PM**

- 1400-159 GAV.02/01P/D-007 Poster**
THE CATALOGUE OF GEOMAGNETIC PULSATIONS OF A TYPE IPDP AT OBSERVATORY BOROK
Emma T. MATVEYEVA, Rem V. SHCHEPETNOV
- 1400-160 GAV.02/01P/D-008 Poster**
PLANETARY GEOMAGNETIC ACTIVITY INDICES BASED ON MINUTE VALUES
Michel MENVIELLE
- 1400-161 GAV.02/01P/D-009 Poster**
AP IN REAL TIME
Ellen CLARKE, Hans-Joachim LINTHE
- 1400-162 GAV.02/01P/D-010 Poster**
A STUDY OF TIME AND SPACE VARIATIONS OF THE MID-LATITUDE GEOMAGNETIC RECORDS DURING INTENSE GEOMAGNETIC STORMS AND THEIR INTERPLANETARY ORIGIN
Luis A. VIEIRA, Walter D. GONZALEZ, Alicia L. CLUA DE GONZALEZ, Alisson DAL LAGO, Ezequiel ECHER, Fernando GUARNIERI, Alan PRESTES, Jean C. SANTOS, Nelson SCHUCH
- 1400-163 GAV.02/01P/D-011 Poster**
TITLE: MULTI-SCALE AND REGULARITY/IRREGULARITY ASPECTS OF MAGNETOSPHERIC DYNAMICS IN ARTIFICIAL NEURAL NETWORKS.
Dana JANKOVICOVA, Z. VOROS

GAV.03-Posters Tuesday, July 1 PM

THE GEOSPACE ENVIRONMENT IN NEAR-REAL TIME: SCIENCE AND TECHNOLOGY (DIVISION V LEAD, JOINT WITH DIVISION III, INTERDIVISIONAL WG ON POLAR RESEARCH, AND CEOS)
Location: Site D

Convener: T. Ogino

Co-Conveners: D. Boteler, R. Clauer, H. Koskinen, H. Kroehl
Presiding Chairs: T. Obara, S. Masuda

- 1400-164 GAV.03/01P/D-001 Poster**
REAL-TIME MHD SIMULATION OF THE EARTH'S MAGNETOSPHERE WITH SUPER COMPUTER SYSTEM
Takahiro OBARA, Takashi TANAKA, Mitsue DEN, Hiroyoshi AMO, Yasuharu HAYASHI, Eiichi NAKANO, Yoshiki SEO, Kenji SUEHIRO, Hiroshi TAKAHARA, Toshifumi TAKEI
- 1400-165 GAV.03/01P/D-002 Poster**
DATABASE SYSTEM OF VLF/ELF WAVES AND AUTOMATIC CLASSIFICATION ALGORITHM OF WAVE PHENOMENA
Yoshiya KASAHARA, Yosuke AKIMOTO, Yoshitaka GOTO, Toru SATO, Shohei TANAKA, Eiichi NEGITA
- 1400-166 GAV.03/01P/D-003 Poster**
A GLOBAL MAGNETOHYDRODYNAMIC SIMULATION OF THE EARTH'S MAGNETOSPHERIC EVENT ON OCTOBER 21-22, 1999
Kyung Sun PARK, Tatsuki OGINO
- 1400-167 GAV.03/01P/D-004 Poster**
DEMONSTRATION OF VEMS (VIRTUAL EARTH MAGNETOSPHERE SYSTEM) AND STARS (SOLAR-TERRESTRIAL DATA ANALYSIS AND REFERENCE SYSTEM)
Ken Takeshi MURATA
- 1400-168 GAV.03/01P/D-005 Poster**
SUPERCOMPUTING OF SPACE PLASMAS AND 3-DIMENSIONAL VISUALIZATION
Keiichiro FUKAZAWA, Kyung Sun PARK, Tatsuki OGINO
- 1400-169 GAV.03/01P/D-006 Poster**
VIRTUAL EARTH MAGNETOSPHERE SYSTEM: A NEW RESEARCH ENVIRONMENT FOR EARTH AND SPACE SCIENCE BASED ON VIRTUAL REALITY SYSTEM AND NETWORK DATABASE
Ken Takeshi MURATA
- 1400-170 GAV.03/01P/D-007 Poster**
MAGNETOHYDRODYNAMIC MODELING OF A GIANT CUSPED LOOP AND ASSOCIATED CORONAL MASS EJECTION
Daikou SHIOTA, Hiroaki ISOBE, P.F. CHEN, Kazunari SHIBATA
- 1400-171 GAV.03/01P/D-008 Poster**
ACTIVITIES REPORT OF CRL SPACE ENVIRONMENT INFORMATION SERVICE
Hiromitsu ISHIBASHI, Tsutomu NAGATSUMA
- 1400-172 GAV.03/01P/D-009 Poster**
WEB-BASED PLASMA PARTICLE SIMULATION USING THE SPACE SIMULATION/NET-LABORATORY SYSTEM
Hideyuki USUI, Tooru SUGIYAMA, Masaki FUJIMOTO, Yoshiharu OMURA, Hiroshi MATSUMOTO

- 1400-173 GAV.03/01P/D-010 Poster**
A NEW AURORAL RADAR NETWORK SYSTEM IN ANTARCTICA FOR SPACE WEATHER FORECASTING
Kazuhiro OHTAKA, Noriaki OBARA, Masanoshin OKU, Kiyoshi IGARASHI, Kenrou NOZAKI
- 1400-174 GAV.03/01P/D-011 Poster**
GEOSPACE ENVIRONMENT SIMULATION BY PLASMA SIMULATION CODESON VECTOR-PARALLEL ULTRA SUPER COMPUTER (EARTH SIMULATOR)
Tooru SUGIYAMA, Naoki TERADA, Takeshi MURATA, Masaki OKADA, Iku SHINOHARA, Masao NAKAMURA, Hiroko UEDA, Yoshiharu OMURA, Tatsuki OGINO, Hideyuki USUI, GES Project Team
- 1400-175 GAV.03/01P/D-012 Poster**
MODELING OF MESOSCALE DISTURBANCES IN THE POLAR THERMOSPHERE-IONOSPHERE SYSTEM
Kazutoshi IWAMASA, H. SHINAGAWA, B.-C. ZHANG
- 1400-176 GAV.03/01P/D-013 Poster**
REAL-TIME INVERSION MODELING WITH GEDAS FOR SPACE WEATHER: 2. SYSTEM
Satoshi MASUDA, Yohsuke KAMIDE, Yuka KADOWAKI, Akimasa IEDA, Hiroyuki SHINAGAWA, Hisato SHIRAI, Eric A. KIHN, Aaron J. RIDLEY, Edward W. CLIVER
- 1400-177 GAV.03/01P/D-014 Poster**
MAGNETOMETER NETWORK FOR REALTIME MONITORING OF EQUATORIAL AND LOW LATITUDE GEOMAGNETIC DISTURBANCES
Manabu SHINOHARA, Takashi KIKUCHI, Kenro NOZAKI



IAMAS

MI02 Tuesday, July 1 PM

CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)

Location: Site B, Room 17

Presiding Chairs: R.W. Bergstrom, Q. Fu, T. Yamanouchi, H. Okamoto

- 1400 MI02/01P/B17-001**
COMPARISON OF MICROPHYSICAL AND OPTICAL CIRRUS CLOUD PROPERTIES BETWEEN SOUTHERN AND NORTHERN HEMISPHERES
Jean - François GAYET, Valery SCHERBAKOV, Guy FEBVRE, Frédérique AURIOL, Joelle OVARLEZ, Andreas MINIKIN, Johan STRÖM
- 1415 MI02/01P/B17-002**
AIRBORNE MEASUREMENTS IN THE CIRRUS OUTFLOW FROM TROPICAL CONVECTION
J. WHITEWAY, T. CHOULARTON, J. HARRIES, M. GALLAGHER, K. BOWER, R. BUSEN, R. ASPEY, C. COOK, M. FLYNN, J. HACKER, J. MURRAY
- 1430 MI02/01P/B17-003**
OBSERVATIONS OF CIRRUS CLOUDS WITH A NEW SET OF AIRBORNE INSTRUMENTS: PLATFORM DESCRIPTION AND PRELIMINARY RESULTS
Robert G. ELLINGSON, Tim TOOMAN, Arm-Uav Science Team
- 1445 MI02/01P/B17-004**
ICE WATER PATH AND OVERLAPPING FREQUENCY OF TROPICAL OVERCAST CLOUDS
Bing LIN, Patrick MINNIS, Shu-peng HO, Jianping HUANG, Alice FAN
- 1500 PANEL DISCUSSION**
- 1600 BREAK**
- 1630 MI02/01P/B17-005 Invited**
AEROSOLS AND CLIMATE: REGIONAL PERSPECTIVES
V. RAMANATHAN
- 1700 MI02/01P/B17-006**
CHEMICAL COMPOSITION OF AEROSOLS COLLECTED IN THE NORTHERN SLOPE OF MT. QOMOLANGMA (EVEREST) REGION
Junying SUN, Dongqi ZHANG, Dahe QIN, Jiawen REN, Shichang KANG, Shugui HOU
- 1715 MI02/01P/B17-007**
SALTATION PROCESSES OF MINERAL DUST OBSERVED IN THE TAKLIMAKAN DESERT CHINA BY USE OF NEWLY-DEVELOPED DUST PARTICLE COUNTER
Masao MIKAMI, Yutaka YAMADA, Taminoe ISHIMARU, Masahide ISHIZUKA, FanJiang ZENG, Weidong GAO

MC06 Tuesday, July 1 PM

MESOSCALE FLOW REGIMES AND BOUNDARY LAYER PROCESSES (ICDM)

Location: Site C, Room 26

Convener: J.W. Nielsen-Gammon
Presiding Chair: R. Smith

1600 MC06/01P/C26-001

WIND SHEAR ENHANCEMENT OF CONVECTIVE BOUNDARY LAYER GROWTH

Robert John CONZEMIUS, Evgeni FEDOROVICH

1620 MC06/01P/C26-002

COMPARISON OF DIURNAL WIND VARIATION IN SEMI-GEOSTROPHIC EKMAN BOUNDARY LAYER MODEL AND SODAR DATA.

Majid MAZRAEH EI FARAHANI, Mohamad Ali SAGHAFI

1640 MC06/01P/C26-003

DEVELOPMENT OF CONVECTIVELY MIXED LAYER AND CLOUD FORMATION IN IT OBSERVED BY AN INSTRUMENTED AIRCRAFT

Masataka MURAKAMI, Narihiro ORIKASA, Hiroaki HORIE, Hiroshi KUROIWA, Haruya MINDA

1700 MC06/01P/C26-004

A SIMPLE ADVECTION-DIFFUSION TURBULENCE SCHEME FOR THE CONVECTIVE BOUNDARY LAYER

Pedro M.M. SOARES, Pedro M.A. MIRANDA, J. TEIXEIRA, P. SIEBESMA

1720 MC06/01P/C26-005

OBSERVATIONS OF FOGS WITH A MILLIMETER-WAVE DOPPLER RADAR AND A DOPPLER SODAR AT KUSHIRO, JAPAN

Akihisa UEMATSU, Hiroyuki HASHIGUCHI, Michihiro TESHIBA, Hisamichi TANAKA, Koichi HIRASHIMA, Taiichi HAYASHI, Akira YAMAMOTO, Shoichiro FUKAO

1740 MC06/01P/C26-006

HEAT AND MOMENTUM TRANSPORT ABOVE INHOMOGENEOUS SURFACES IN POLAR REGIONS

Irina A. REPINA



P02 Tuesday, July 1 PM

MARGINAL AND SEMI-ENCLOSED SEAS AND THEIR EXCHANGE WITH THE OPEN OCEAN

Location: Site C, Room 25

Presiding Chair: M. Astraldi

1400 P02/01P/C25-001

ON THE PROCESSES DETERMINING THE OVERALL SALINITY OF THE BALTIC SEA

Johan RODHE

1430 P02/01P/C25-002

LOCATION-SPECIFIC PARAMETRISATION OF TURBULENT MIXING: A CASE STUDY.

Madis-Jaak LILOVER, Adolf STIPS

1450 P02/01P/C25-003

MESOSCALE VARIABILITY OF NORTH SEA AND BALTIC SEA: COMPARING 3D HYDRODYNAMICAL MODEL RESULTS AND SATELLITE-DERIVED SST

Adolf Konrad STIPS, Craig James DONLON, Hans BURCHARD, Karsten BOLDING, Elisaveta PENEVA

1510 P02/01P/C25-004

DIVERSITY OF PROCESSES OF DEEP WATERS FORMATION IN THE WHITE SEA

Anatoli N. PANTIULIN

1530 P02/01P/C25-005

SENSITIVITY OF THE CASPIAN SEA DEEP LAYER VENTILATION TO FRESHWATER BALANCE

Rashit Akhmetzиеvich IBRAYEV, Dmitri Georgievich KURDUMOV

1550 BREAK

1610 P02/01P/C25-006 Invited

THE BLACK SEA THERMOHALINE CONVEYOR BELT. ANALYSIS OF OBSERVATIONS AND NUMERICAL MODEL SIMULATIONS.

Emil V. STANEV

1640 P02/01P/C25-007

MODELLING THE EFFECTS OF RADIONUCLIDES DISTRIBUTION IN SEDIMENTS OF THE BLACK SEA

Alexei Evgenievich KONTAR

1700 P02/01P/C25-008

INFLUENCE OF MESOSCALE CIRCULATIONS ON THE COASTAL BENTHIC COMMUNITIES IN THE BLACK SEA

Margarita V. CHIKINA, Nikita V. KUCHERUK

1720 P02/01P/C25-009

EXCHANGE FLOW IN THE BOSPHORUS

Frank GERDES

P02b-Posters Tuesday, July 1 PM

MARGINAL AND SEMI-ENCLOSED SEAS AND THEIR EXCHANGE WITH THE OPEN OCEAN

Location: Site D

Presiding Chair: J. Johnson

1400-180 P02b/01P/D-001

Poster

LOCAL SEA LEVEL RESPONSE TO ATMOSPHERIC PRESSURE AND KELVIN WAVE PROPAGATION ALONG THE COAST AROUND THE KOREAN PENINSULA

SungHyun NAM, Sang Jin LYU, Kuh KIM

1400-181 P02b/01P/D-002

Poster

RAPID VERTICAL MIXING OF DEEP WATERS IN THE ANDAMAN BASIN

Koushik DUTTA, Ravi BHUSHAN, B. L.K. SOMAYAJULU

1400-182 P02b/01P/D-003

Poster

LAGRANGIAN OBSERVATIONS AND MODELLING OF THE SURFACE CIRCULATION OF THE TYRRHENIAN SEA

Pierpaolo FALCO, Stefano PIERINI, Pierre-Marie POULAIN, Carmela VENEZIANI, Enrico ZAMBIANCHI

1400-183 P02b/01P/D-004

Poster

HIGH-RESOLUTION OBSERVATIONS OF THE PATH OF THE OVERFLOW FROM THE SICILY STRAIT.

David A. SMEED, Kate STANSFIELD

1400-184 P02b/01P/D-005

Poster

INTERANNUAL VARIABILITY OF THE WATER CHARACTERISTICS THROUGH THE STRAIT OF SICILY (MEDITERRANEAN BASIN)

A. ORTONA, G.P. GASPARINI, G. BUDILLON, M. ASTRALDI, E. SANSONE

1400-185 P02b/01P/D-006

Poster

REMOTELY SENSED SEASONAL DYNAMICS OF PHYTOPLANKTON IN TWO DIFFERENT LOCATIONS OF MEDITERRANEAN BASIN

Nikolay Pavlovich NEZLIN

1400-186 P02b/01P/D-007

Poster

PRINCE WILLIAM SOUND MODEL SKILL ASSESSMENT

Christopher N. K. MOOERS, Inkwon None BANG

1400-187 P02b/01P/D-008

Poster

THE IMPACT OF MEDITERRANEAN-ATLANTIC EXCHANGE ON THE ATLANTIC MERIDIONAL OVERTURNING CIRCULATION.

Sandro CALMANTI, Vincenzo ARTALE, Alfonso SUTERA

1400-188 P02b/01P/D-009

Poster

DEVELOPMENT OF THE BERING-CHUKCHI SEAS HYDROGRAPHIC DATA SET TOWARD INVERSE MODELING

Tsuyoshi WAKAMATSU, Xiangdong ZHANG, Tomoko INUI

1400-189 P02b/01P/D-010

Poster

A STUDY OF VARIABILITY OF THE EXCHANGE FLOW THROUGH THE STRAIT OF GIBRALTAR

Giannetta FUSCO, Gianmaria SANNINO, Vincenzo ARTALE

1400-190 P02b/01P/D-011

Poster

TRANSPORT OF THE MEDITERRANEAN OUTFLOW AND MEDDIES USING FLOATS EXPERIMENTS AND SATELLITE MULTI-SENSOR DATA

Xiao-Hai YAN, Young-Heon JO, Ming-Xia HE, W. Timothy LIU

P03 Tuesday, July 1 PM

THE ROLE OF TIDES, MESOSCALE PROCESSES, AND BOTTOM TOPOGRAPHY IN ENERGY TRANSFER AND MIXING

Location: Site B, Room 19

Presiding Chair: E. Morozov

1400 P03/01P/B19-001

PROPAGATION OF INTERNAL SOLITON ALONG THE SHELF

Olga D. SHISHKINA, John GRUE, J. Kristian SVEEN

1420 P03/01P/B19-002

SEASONAL VARIATIONS OF PERIODIC WATER DYNAMICS ON THE LAPTEV SEA SHELF, SIBERIAN ARCTIC

Igor DMITRENKO, Sergey KIRILLOV, Jens HÖLEMANN, Hajo EICKEN

1440 P03/01P/B19-003
EVIDENCE OF STRONG INERTIA-GRAVITY WAVE ACTIVITY DURING POMME EXPERIMENT
Pascale BOURUET-AUBERTOT, Herle MERCIER, Fabienne GAILLARD, Pascale LHERMINIER

1500 P03/01P/B19-004
GLOBAL ESTIMATES OF THE WIND-INDUCED ENERGY FLUX TO INERTIAL MOTIONS IN THE SURFACE MIXED LAYER
Michio WATANABE, Toshiyuki HIBIYA

1520 P03/01P/B19-005
THE DEGENERATION OF INTERNAL WAVES IN LAKES WITH SLOPING TOPOGRAPHY
Leon BOEGMAN, Gregory N. IVEY, Jörg IMBERGER

1540 P03/01P/B19-006
DECAY OF AGULHAS RINGS AND THE ASSOCIATED TRACER LEAKAGE
Sybren S. DRIJFHOUT, Laura DE STEUR, Peter J. VAN LEEUWEN

1600 BREAK

1620 P03/01P/B19-007
THERMOHALINE STRUCTURE OF BOTTOM WATER IN A RIFT VALLEY OF MAR
Tatiana A. DEMIDOVA

1640 P03/01P/B19-008
SIMULATED PYCNOSTADS IN THE JAPAN/EAST SEA VIA A HYBRID COORDINATE OCEAN MODEL
Patrick Joseph HOGAN

1700 P03/01P/B19-009
PROCESSES CONTROLLING POLLUTANTS EXCHANGE BETWEEN OPEN BAY AND COASTAL BAY, BAY OF BENGAL, INDIA
Jaya Raju NADDIMIKERI

1720 P03/01P/B19-010
ADAPTATION AND SUSTAINABILITY ISSUES OF GLOBAL WARMING CONSEQUENCES IN COASTAL BANGLADESH
Md. SALEQUZZAMAN, Peter NEWMAN

P04 Tuesday, July 1 PM

CHEMICAL AND ISOTOPIC TRACERS IN OCEAN CIRCULATION

Location: Site C, Room 30

Convener: D. Lal
Co-Convener: A. Watson
Presiding Chair: D. Smythe-Wright

1400 P04/01P/C30-001
MIXING IN SURFACE 300 M LAYER OF THE ARABIAN SEA AND THE BAY OF BENGAL USING ^{222}Rn , ^{226}Ra AND ^3H
R. RENGARAJAN, Bhamidipati L. K. SOMAYAJULU, R. RAMESH, A.R. NAIR, S.M. RAO

1420 P04/01P/C30-002
MERIDIONAL FLUX OF THE GEOCHEMICAL QUANTITIES IN THE NORTH PACIFIC ACROSS 30N
Hiroyasu YAMAGUCHI

1435 P04/01P/C30-003
PENETRATION OF RADIOCARBON IN THE BAY OF BENGAL
Koushik DUTTA, Ravi BHUSHAN, Bhamidipati Lakshmidhara K. SOMAYAJULU

1450 P04/01P/C30-004
PERSPECTIVES OF DEVELOPMENT OF THE TRITIUM MEASUREMENTS
Anatoly N. SALYUK

1505 P04/01P/C30-005
DOES TRACER VENTILATION RATE REPRESENT WATERMASS FORMATION RATE?
Nobuo SUGINOHARA, Ryo FURUE, Hideyuki NAKANO

1520 P04/01P/C30-006
MATERIAL TRANSPORT ROUTES TO THE SUBPOLAR GYRE: INTERGYRE EXCHANGE AND DEEP WATER UPWELLING USING GCM TRACER EXPERIMENTS.
Yoshio MASUDA, Motoyoshi IKEDA

1535 BREAK

1555 P04/01P/C30-007
STUDY OF THE IMPACT OF THE GEOTHERMAL HEATING ON ORCA MODEL DEEP CIRCULATION DEDUCED FROM NATURAL HELIUM-3 SIMULATIONS.
Jean-Claude DUTAY, Gurban MADEC, Daniele IUDICONE, Keith RODGERS, Philippe JEAN-BAPTISTE

1615 P04/01P/C30-008
CHARACTERIZING TRANSPORT TIMESCALES BETWEEN THE SURFACE MIXED LAYER AND THE DEEP OCEAN WITH AN OGCM AND ITS ADJOINT
Francois W. PRIMEAU



SS01 Tuesday, July 1 PM

SEISMOLOGICAL OBSERVATION AND INTERPRETATION

Location: Site A, Room 9

Presiding Chairs: R.-S. Wu, H. Sato

1400 SS01/01P/A09-001
SCATTERING STRUCTURE IN THE LOWER CRUST BENEATH NORTHEAST JAPAN AS INFERRED FROM CODA ENVELOPES OF SHALLOW EARTHQUAKES
Masahiro KOSUGA, Shingo AIZAWA

1415 SS01/01P/A09-002
SYNTHESIS OF WAVE ENVELOPES IN RANDOM MEDIA USING THE MARKOV ENVELOPE AS A PROPAGATOR IN THE RADIATIVE TRANSFER THEORY
Haruo SATO, Mike FEHLER, Tatsuhiko SAITO

1430 SS01/01P/A09-003
ORIGIN OF THE CODA OF LONG-PERIOD RAYLEIGH WAVES: CONTRIBUTION OF HIGHER MODES
Takuto MAEDA, Haruo SATO, Masakazu OHTAKE

1445 SS01/01P/A09-004
INFLUENCE OF RANDOM MEDIA STRUCTURE ON PERIODIC RIPPLES OF CODA ENVELOPES
Michael C. FEHLER, Haruo SATO

1500 SS01/01P/A09-005
TELESEISMIC P-WAVE CODA INTERPRETATION IN TERMS OF SMALL-SCALE HETEROGENEITY OF THE LITHOSPHERE
Michael KORN, Jens PRZYBILLA

1515 SS01/01P/A09-006
PEAK AMPLITUDE DECAY AND ENVELOPE BROADENING OF HIGH-FREQUENCY SEISMOGRAMS WITH INCREASING TRAVEL DISTANCE IN THE N-E HONSHU, JAPAN: A MODEL BASED ON THE MARKOV APPROXIMATION METHOD
Tatsuhiko SAITO, Haruo SATO, Masakazu OHTAKE, Kazushige OBARA

1530 SS01/01P/A09-007
HALF-SPACE P-SV SCREEN PROPAGATOR FOR REGIONAL WAVE PROPAGATION IN COMPLEX CRUSTAL WAVE GUIDES
Ru-Shan WU, Xian-Yun WU, Xiao-Bi XIE

1545 BREAK

1615 SS01/01P/A09-008
F-K AND POLARIZATION ANALYSIS OF SCATTERED WAVES BASED ON AN AR MODEL BY A DENSE THREE-COMPONENT SEISMIC ARRAY
Taka'aki TAIRA, Kiyoshi YOMOGIDA

1630 SS01/01P/A09-009
SPATION-TEMPORAL VARIATIONS OF SHEAR WAVE ATTENUATION FIELD IN SOURCE ZONES OF LARGE EARTHQUAKES IN TIEN SHAN REGION.
Yuri Fedorovich KOPNICHIEV, Inna Nikolaevna SOKOLOVA

1645 SS01/01P/A09-010
ATTENUATION AND DISPERSION OF SH WAVES DUE TO SCATTERING BY CAVITIES
Jun KAWAHARA, Taichi OHNO, Kiyoshi YOMOGIDA

1700 SS01/01P/A09-011
SEPARATION OF SCATTERING AND INTRINSIC ATTENUATION IN A NON-VOLCANIC AND VOLCANIC EARTHQUAKE-SWARM AREAS AT WAKAYAMA AND KUJU, JAPAN
Koji MATSUNAMI, Yasuaki SUDO, Miyuki YOSHIKAWA

1715 SS01/01P/A09-012
THE SPECTRAL DECAY PARAMETER K IN BHUJ
Simanchal PADHY

1730 SS01/01P/A09-013
ESTIMATION OF Q FACTOR FOR NORTHWEST IRAN USING LOCAL EARTHQUAKES
Hassan NEZAM-ISLAMI

1745 SS01/01P/A09-014
VOLCANIC FRONT AS A BOUNDARY OF SEISMIC ATTENUATION STRUCTURES IN THE NORTHEASTERN HONSHU, JAPAN
Kazuo YOSHIMOTO

ORIGINS OF ARC MAGMA

Location: Site D

- 1400-191 V06/01P/D-001 Poster**
SUBDUCTION AND MELTING OF BACK-ARC BASIN BENEATH NE JAPAN ARC: EVIDENCE FROM ADAKITIC ROCKS OF LATEST QUATERNARY VOLCANOES IN THE BACK-ARC SIDE
Mitsuhiro NAKAGAWA, Tomoko SEINO, Yoshihiro ISHIZUKA
- 1400-192 V06/01P/D-002 Poster**
ISOTOPE AND TRACE ELEMENT GEOCHEMISTRY OF ISLAND-ARC THOLEIITIC AND CALC-ALKALINE MAGMAS AT ADATARA VOLCANO, NORTHEAST JAPAN
Akihiko FUJINAWA, Eizo NAKAMURA
- 1400-193 V06/01P/D-003 Poster**
STRUCTURAL CHANGE OF THE CRUST/MANTLE RELATED WITH THE OPENING OF THE JAPAN SEA: EVIDENCE OF SR, ND AND PB ISOTOPES OBSERVED IN THE TERTIARY VOLCANIC ROCKS OF NE-JAPAN
Susumu NOHDA, Tomomi KANI, Yo-ichiro OTOFUJI
- 1400-194 V06/01P/D-004 Poster**
PETROGENESIS OF PICRITE AND BAJAITE IN KUMEJIMA ISLAND, RYUKYU ARC, JAPAN
Jun'ichi ITO
- 1400-195 V06/01P/D-005 Poster**
ORIGIN OF THE MAFIC AND ULTRAMAFIC XENOLITH-BEARING DACITES FROM SOUTHWEST JAPAN ARC
Takashi NAGAO, Masamichi IKEDA, Susumu KAKUBUCHI
- 1400-196 V06/01P/D-006 Poster**
EVOLUTION OF A POLYGENETIC VOLCANO: CASE STUDY ON RISHIRI VOLCANO, NORTHERN HOKKAIDO, JAPAN. TIME-COMPOSITIONAL-ISOTOPIC RELATIONSHIPS BETWEEN THE BASALTIC MAGMAS
Yoshihiro ISHIZUKA, Mitsuhiro NAKAGAWA
- 1400-197 V06/01P/D-007 Poster**
NON-SUBDUCTION VOLCANISM IN LATE CENOZOIC SOUTHERN KYUSHU, SW JAPAN ARC
Yoshitaka HASE, Takashi NAGAO
- 1400-198 V06/01P/D-008 Poster**
TONALITE FROM BASALTIC MAGMA AT THE KOMAHASHI-DAINI SEAMOUNT, NORTHERN KYUSHU-PALAU RIDGE IN THE PHILIPPINE SEA, AND THE GROWTH OF THE IZU-OGASAWARA (BONIN)-MARIANA ARC CRUST
Satoru HARAGUCHI, Teruaki ISHII, Jun-Ichi KINURA, Yasuhiko OHARA
- 1400-199 V06/01P/D-009 Poster**
GEOCHEMISTRY OF THE SILICIC DOMES IN THE MACOLOD CORRIDOR, PHILIPPINES
Raymond Patrick R. MAXIMO, Timothy P. FLOOD, Lina C. PATINO, Thomas A. VOGEL, Carlo A. ARCILLA, Ma. Carmencita B. ARPA
- 1400-200 V06/01P/D-010 Poster**
DYNAMICS AND ARCHITECTURE OF THE HISTORICAL BASALTIC ANDESITE MAGMATIC SYSTEM AT BATUR VOLCANO, BALI
Olivier REUBI, Ian NICHOLLS
- 1400-201 V06/01P/D-011 Poster**
TWO-LEVEL OF ISLAND ARC MANTLE MELTING BENEATH AVACHA VOLCANO, KAMCHATKA
Pavel Yu. PLETCHOV, Sofia A. TETROEVA, Michael Yu. PUZANKOV
- 1400-202 V06/01P/D-012 Poster**
BONINITIC ASSOCIATION IN THE EASTERN KAMCHATKA AND THE SAKHALIN OPHIOLITES
Alexey B. OSIPENKO
- 1400-203 V06/01P/D-013 Poster**
EXPERIMENTAL STUDY OF A LOW-ALKALI THOLEIITE AT 1-5 KBAR: EFFECT OF H₂O ON CA-NA PARTITIONING BETWEEN PLAGIOCLASE AND MELT
Daisuke TAKAGI, Hiroaki SATO, Mitsuhiro NAKAGAWA
- 1400-204 V06/01P/D-014 Poster**
THE DIVERSITY OF MAGMA COMPOSITIONS IN THE ANDESITIC VOLCANOES OF KAMCHATKA AND THE KURIL ISLANDS: EVIDENCE FROM INCLUSIONS IN MINERALS
Andrei D. BABANSKI, Mariya L. TOLSTIKH, Vladimir B. NAUMOV, Genrietta E. BOGOYAVLENSKAYA
- 1400-205 V06/01P/D-015 Poster**
PETROLOGY OF THE LATE CRETACEOUS VOLCANIC ROCKS IN BUSAN, KOREA
Sung-Hyo YUN, Jeong Seon KOH, Young Lar KIM, Hyang Soo KIM

- 1400-206 V06/01P/D-016 Poster**
LARGE SUPPLY OF SULFUR TRANSPORTED BY MAFIC MAGMA DURING THE EVOLUTION (FROM 23KA TO AD 1783) OF ASAMA VOLCANO: MELT INCLUSION EVIDENCE
Yoshiaki YAMAGUCHI, Hisao SATOH, Yasushi OHTA, Hideo HARADA
- 1400-207 V06/01P/D-017 Poster**
SULFUR CONCENTRATIONS IN OLIVINE-HOSTED MELT INCLUSIONS FROM THE VOLCANIC FRONT OF SOUTHERN HOKKAIDO, JAPAN: USU, KUTTARA, AND TARUMAI VOLCANOES
Yasushi OHTA, Yoshiaki YAMAGUCHI, Hideo HARADA
- 1400-208 V06/01P/D-018 Poster**
SULFUR-RICH MAFIC MAGMA SUPPLIED TO THE MYOKO VOLCANIC SYSTEM IN THE BACK-ARC REGION IN CENTRAL JAPAN: MELT INCLUSIONS IN PHENOCRYSTS
Hideo HARADA, Yoshiaki YAMAGUCHI, Yasushi OHTA
- 1400-209 V06/01P/D-019 Poster**
AN EXPERIMENTAL STUDY OF THE KINETICS OF COOLING INDUCED CRYSTALLIZATION ON STROMBOLI LAVAS (AEOLIAN ISL., ITALY)
Aida Maria CONTE, Cristina PERINELLI, Raffaello TRIGILA
- 1400-210 V06/01P/D-020 Poster**
EOCENE MELTING OF PRECAMBRIAN LITHOSPHERIC MANTLE: ANALCIME-BEARING VOLCANIC ROCKS FROM THE CHALLIS-KAMLOOPS ARC OF SOUTH CENTRAL BRITISH COLUMBIA (CANADA)
Jaroslav DOSTAL, Derek J. THORKELOSON
- 1400-211 V06/01P/D-021 Poster**
NEOGENE ALKALINE VOLCANISM IN EASTERN MEXICO AND ITS RELATION TO THE TRANS-MEXICAN VOLCANIC BELT
Luca FERRARI, Maria Teresa OROZCO ESQUIVEL, Chiara Maria PETRONE, Takahiro TAGAMI, Mugihiro EGUCHI
- 1400-212 V06/01P/D-022 Poster**
GENERATION OF MASSIVE SILICIC VOLCANISM IN A CONTINENTAL VOLCANIC ARC: THE WESTERN TRANS-MEXICAN VOLCANIC BELT
Chiara Maria PETRONE, Luca FERRARI, Margarita LOPEZ, Piero MANETTI
- 1400-213 V06/01P/D-023 Poster**
VOLCANOLOGY AND PETROLOGY OF THE HUDSON, MACA AND CAY STRATOVOLCANOES AND MINOR MONOGENETIC CONES IN THE CHILEAN ANDEAN PATAGONIA: CHARACTERS OF THE VOLCANISM AT THE BORDER OF VOLCANIC GAP OF THE SOUTH VOLCANIC ZONE (SVZ).
Gutierrez, F, Mazzuoli, R, Lahsen A, Gonzalez-Ferran O, Gioncada, A
- 1400-214 V06/01P/D-024 Poster**
CENOZOIC MAGMATISM OF THE NORTHEASTERN EURASIAN MARGIN: THE ROLE OF LITHOSPHERE VERSUS ASTHENOSPHERE
Satoshi OKAMURA, Yuri A. MARTYNOV, Richard J. ARCULUS
- 1400-215 V06/01P/D-025 Poster**
GEOCHEMICAL AND ISOTOPIC TRACING OF SLAB TEAR-INDUCED LATERAL FLOW OF AFRICAN MANTLE BELOW THE NEARBY TYRRHENIAN PLATE
Giancarlo SERRI, Teresa TRUA, Michael MARANI
- 1400-216 V06/01P/D-026 Poster**
CHANGE IN THE INTERMEDIATE-DEPTH SEISMICITY WITH DEPTH AND ITS IMPLICATIONS FOR THE GENERATION OF MAGMAS
Akio YOSHIDA, Kohji HOSONO
- 1400-217 V06/01P/D-027 Poster**
SMALL SCALE CONVECTION UNDER THE BACK-ARC
Satoru HONDA, Mitsunobu SAITO
- 1400-218 V06/01P/D-028 Poster**
INITIATION OF MAGMA-FILLED CRACKS AT UPPERMOST PART OF PARTIALLY MOLTEN REGION
Tohru WATANABE
- 1400-219 V06/01P/D-029 Poster**
HIGH-MGO BASALTS FROM ST. VINCENT, WEST INDIES
Richard Edward Arnold ROBERTSON, Trevor JACKSON, Peter SCOTT
- 1400-220 V06/01P/D-030 Poster**
DOUBLE VISCOSITY LIMIT OF VOLCANIC ERUPTION
Shingo TAKEUCHI
- 1400-221 V06/01P/D-031 Poster**
STRUCTURE AND ORIGIN OF THE KATHARINA RING COMPLEX (SINAI PENINSULA, EGYPT)
Moshe EYAL, Boris LITVINOVSKY, Ada ZANVILEVICH
- 1400-222 V06/01P/D-032 Poster**
HOW MANY DAYS IS THE INTERMISSION FOR MAGMA INTRUSIONS INTO A COMPOSITE DIKE?
Yutaka WADA, Chizu ITOTA
- 1400-223 V06/01P/D-033 Poster**
PETROGRAPHY AND PETROLOGY OF LAMPROPHYRES FROM NORTHWEST OF IRAN AND THEIR RELATION TO MAGMATISM OF PLIO-QUATERNARY.
Ahmad JAHANGIRI

1400-224 V06/01P/D-034 Poster
 GEOCHEMISTRY AND GEODYNAMIC SIGNIFICANCE OF THE EARLY JURASSIC BASALTS IN SOUTH CHINA
 Zhenhua ZHAO, Zhiwei BAO, Qiang WANG

V10 Tuesday, July 1 PM

VOLCANO STRUCTURE AND SCIENTIFIC DRILLING
 Location: Site A, Room 1

Presiding Chairs: J. Eichelberger, S. Nakada

1400 V10/01P/A01-001 Invited
 OVERVIEW OF THE UNZEN SCIENTIFIC DRILLING PROJECT AND THE RESULT OF PHASE I
 Kozo UTO, Setsuya NAKADA, Hideo HOSHIZUMI, Hiroshi SHIMIZU

1430 V10/01P/A01-002
 GEOLOGY AND GROWTH HISTORY OF UNZEN VOLCANO - RESULTS OF TWO FLANK DRILLINGS OF UNZEN SCIENTIFIC DRILLING PROJECT
 Hideo HOSHIZUMI, Kozo UTO, Akikazu MATSUMOTO, Arata KURIHARA

1450 V10/01P/A01-003
 VOLCANO STRUCTURE AND STRESS STATE INFERRED FROM DOWNHOLE MEASUREMENTS IN THE UNZEN FLANK DRILLING
 Ryuji IKEDA, Kentaro OMURA, Stephen H. HICKMAN, Motoo UKAWA, Tatsuo MATSUDA

1510 V10/01P/A01-004
 RESISTIVITY STRUCTURE OF UNZEN VOLCANO, KYUSHU, JAPAN FROM TIME DOMAIN ELECTROMAGNETIC (TDEM) DATA AND ITS IMPLICATION TO MAGMA-GROUND WATER INTERACTION
 Wahyu SRIGUTOMO, Tsuneomi KAGIYAMA, Kanda WATARU, Takeshi HASHIMOTO, Hiroshi MUNEKANE, Yoshikazu TANAKA, Mitsuru UTSUGI, Takao OHMINATO

1530 BREAK

1550 V10/01P/A01-005
 HYDROTHERMAL SYSTEM IN THE BODY OF UNZEN VOLCANO AFTER THE 1990-95 ERUPTION
 Yasuhiro FUJIMITSU, Sachio EHARA, Jun NISHIJIMA, Ryohei KANOU, Tatsuya HIRAO, Kei KAWAGASHIRA

1610 V10/01P/A01-006
 SEISMOLOGICAL STUDY ON THE MAGMA ASCENT PATH OF UNZEN VOLCANO
 Hiroshi SHIMIZU, Norimichi MATSUWO, Takeshi MATSUSHIMA, Kenji UEHIRA, Satoshi MATSUMOTO, Kodo UMAKOSHI

1630 V10/01P/A01-007
 DEGASSING PROCESS OF UNZEN VOLCANO DEDUCED FROM THE VOLATILE BUDGET
 Hiroshi SHINOHARA, Hisao SATOH

1650 V10/01P/A01-008
 MAGMA MIXING, DEGASSING AND CRYSTALLIZATION IN THE CHAMBER AND CONDUIT DURING THE 1991-1995 ERUPTION OF UNZEN VOLCANO, JAPAN
 Hiroaki SATO, Francois HOLTZ, Harald BEHRENS, Roman BOTCHARNIKOV, Setsuya NAKADA

V12-Posters Tuesday, July 1 PM

DETECTING MAGMA CHAMBERS
 Location: Site D

1400-249 V12/01P/D-001 Poster
 PRESICE HYPOCENTER DETERMINATION OF DEEP LOW-FREQUENCY EARTHQUAKES BNEATH FUJI VOLCANO, IN 1998-2001
 Haruhisa NAKAMICHI, Motoo UKAWA, Shin'ichi SAKAI, Akimichi TAKAGI

1400-250 V12/01P/D-002 Poster
 VOLCANO-SEISMIC CRISIS OF JANUARY 1-2, 1996, IN KARYMSKY VOLCANIC CENTER (KAMCHATKA): ELASTIC MODELING OF GEODETIC OBSERVATIONS
 Victor M. PAVLOV, Vasily Ye. LEVIN, Mefodii A. MAGUSKIN, Minoru KASAHARA

1400-251 V12/01P/D-003 Poster
 ANOMALOUS P WAVE ATTENUATION REGION BENEATH THE ACTIVE CRATER OF SAKURAJIMA VOLCANO, JAPAN
 Keigo YAMAMOTO, Taku SUZUKI, Sosuke ITO, Kazuhiro ISHIHARA, Kiyoshi NISHI

1400-252 V12/01P/D-004 Poster
 FLUCTUATIONS OF THE VOLCANIC STRUCTURE OF MOUNT IWATE, JAPAN, DETECTED BY ANALYSES OF WAVEFORM SIMILARITY OF MULTIPLET EARTHQUAKES
 Teruo YAMAWAKI, Takeshi NISHIMURA, Hiroyuki HAMAGUCHI

1400-253 V12/01P/D-005 Poster
 DEPTH AND EVOLUTION OF MAGMA CHAMBERS BENEATH USU VOLCANO, JAPAN
 Akihiko TOMIYA

1400-254 V12/01P/D-006 Poster
 CRUSTAL DEFORMATION OF IZU-OSHIMA VOLCANO, JAPAN BY THE REPEATED GPS OBSERVATION
 Akimichi TAKAGI, Masaaki CHUREI, Masanobu ODAI, Yasushi IKEDA, Mitsuteru ASANUMA, Shinjirou TARI, Tetsuya YAMAMOTO, Keiichi FUKUI, Kenji FUJIWARA, Takayuki SAKAI

1400-255 V12/01P/D-007 Poster
 SPATIO-TEMPORAL GRAVITY CHANGES AT MIYAKEJIMA VOLCANO, JAPAN: CALDERA COLLAPSE, EXPLOSIVE ERUPTIONS AND MAGMA MOVEMENT
 Masato FURUYA, Shuhei OKUBO, Wenke SUN, Yoshiyuki TANAKA, Jun OIKAWA, Hidefumi WATANABE, Tokumitsu MAEKAWA

1400-256 V12/01P/D-008 Poster
 REPEATED MAGMA MIXING AND EVOLUTION OF SHALLOW MAGMA CHAMBER OF HOKKAIDO-KOMAGATAKE VOLCANO, NORTHERN JAPAN
 Ryo TAKAHASHI, Mitsuhiro YOSHIMOTO, Mitsuhiro NAKAGAWA

1400-257 V12/01P/D-009 Poster
 PRESSURE SOURCES BENEATH UNZEN VOLCANO INFERRED FROM GEODESIC SURVEY
 Yuhki KOHNO, Takeshi MATSUSHIMA, Hiroshi SHIMIZU, Kenji UEHIRA, Norimichi MATSUWO

1400-258 V12/01P/D-010 Poster
 NATURE OF THE MAGMA RESERVOIR AND CONDUIT SYSTEM OF MIYAKE-JIMA VOLCANO REVEALED BY GPS OBSERVATION
 Jun OIKAWA, Hidefumi WATANABE, Shigeru NAKAO, Takeshi MATSUSHIMA, Fumiaki KIMATA, Working Group on GPS

1400-259 V12/01P/D-011 Poster
 RE-EXAMINATION OF THE MAGMA PLUMBING SYSTEM DURING THE 1663, PRE1769 AND 1769 ERUPTIONS BENEATH USU VOLCANO, HOKKAIDO, JAPAN
 Akiko MATSUMOTO, Mitsuhiro NAKAGAWA

1400-260 V12/01P/D-012 Poster
 LONG-LASTING AND LARGE VOLUME OF THE 2000 INTRUSION EVENT BETWEEN KOZU- AND MIYAKE-JIMA VOLCANOES; -HOW COULD THE MAGMA BE SUPPLIED TO?
 Naoyuki FUJII, Koshun YAMAOKA, Takeshi KUDO, Masashi KAWAMURA, Fumiaki KIMATA

1400-261 V12/01P/D-013 Poster
 HP-HT MEASUREMENTS OF ELECTRICAL CONDUCTIVITY IN BASALTIC ROCKS FROM MT. ETNA (SICILY, ITALY)
 Piergiorgio SCARLATO, Brent POE, Carmela FRED A, Mario GAETA

1400-262 V12/01P/D-014 Poster
 MAGNETIC FABRIC AND INFERRED FLOW DIRECTION OF DIKES AND CONESHEETS OF THE MIOCENE TEJEDA CALDERA COMPLEX, GRAN CANARIA ISLAND, SPAIN
 Emilio HERRERO-BERVERA, Jose MANGAS-VINUELA

1400-263 V12/01P/D-015 Poster
 AZORES HISTORICAL ERUPTIONS: GEOCHEMICAL FEATURES AND RELATED ERUPTIVE STYLES
 Zilda Tavares Melo FRANÇA, Jose Virgilio CRUZ, João Carlos NUNES, Victor Hugo FORJAZ

1400-264 V12/01P/D-016 Poster
 MODELING LONG TERM GROUND DEFORMATION DUE TO THE COOLING OF A MAGMA CHAMBER: THE CASE OF BASILUZZO ISLAND (AEOLIAN ISLANDS, ITALY)
 Andrea TALLARICO, Michele DRAGONI, Marco ANZIDEI, Alessandra ESPOSITO

1400-265 V12/01P/D-017 Poster
 MAGMATIC SYSTEM OF CALDERA-FORMING ERUPTIONS OF MIYAKE-JIMA VOLCANO, IZU-MARIANA ARC, JAPAN
 Mizuho AMMA-MIYASAKA, Mitsuhiro NAKAGAWA

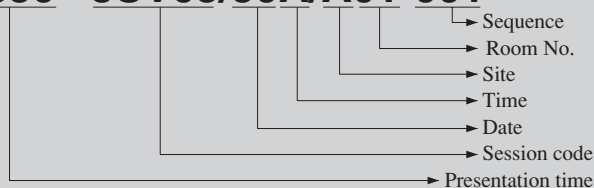
1400-266 V12/01P/D-018 Poster
 VOLCANIC/TECTONIC AND SPATIAL/TEMPORAL RELATIONSHIPS OF OCEANIC CRUSTAL FORMATION ALONG THE SOUTHERN EAST PACIFIC RISE
 Thomas HILDE, Kiyoyuki KISIMOTO

1400-267 V12/01P/D-019 Poster
 SHALLOW PERIPHERAL MAGMATIC CHAMBER LOCATED UNDER KLUCHEVSKOY VOLCANO (KAMCHATKA)
 Gennady iv. ANOSOV, Sergey A. KHUBUNAYA

Paper Numbers

Oral Presentation

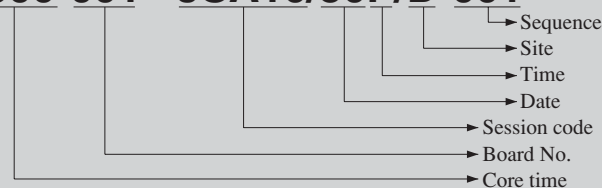
0830 JSV03/30A/A01-001



Example: 0830 JSV03/30A/A01-001 = Presentation begins at 8:30, JSV03, June 30, presentation in the morning (AM), Site A, Room 1, first paper in that session

Poster Presentation

1600-001 JSA10/30P/D-001



Example: 1600-001 JSA10/30P/D-001 = Core time begins at 16:00, Poster Board No.: 001, JSA10, June 30, core time in the afternoon (PM), Site D, first paper in that session



JSA02

Wednesday, July 2 AM

EXTERNAL FORCING ON THE MIDDLE ATMOSPHERE AND IONOSPHERE (IAGA, IAMAS)

Location: Site A, Room 10

Presiding Chairs: D. Pancheva, W. Singer

0830 JSA02/02A/A10-001

THE GLOBAL SIGNAL OF THE 11-YEAR SUNSPOT CYCLE IN THE STRATOSPHERE: DIFFERENCES BETWEEN SOLAR MAXIMA AND MINIMA
Karin LABITZKE

0855 JSA02/02A/A10-002

THE INFLUENCE OF SOLAR PROTON EVENTS IN SOLAR CYCLE 23 ON THE NEUTRAL MIDDLE ATMOSPHERE
Charles H. JACKMAN, Miriam VON KONIG, John ANDERSON, Raymond G. ROBLE, Richard D. MCPETERS, Eric L. FLEMING, James M. RUSSELL

0920 JSA02/02A/A10-003

GEOMAGNETIC INFLUENCE ON THE DYNAMICAL REGIME OF THE MLT REGION
Werner SINGER, J. BREMER, W.K. HOCKING, K. IGARASHI, Ch. JACOBI, A.H. MANSON, Y. MURAYAMA, D. MURPHY, Yu. PORTNYAGIN, D. RIGGIN, R.A. VINCENT

0945 JSA02/02A/A10-004

A TROPOSPHERE-STRATOSPHERE-MESOSPHERE GENERAL CIRCULATION MODEL STUDY OF THE EFFECTS OF ELECTRON PRECIPITATION ON ATMOSPHERIC CHEMICAL COMPOSITION AND CLIMATE SYSTEM
Eugene V. ROZANOV, Linwood B. CALLIS, Michael E. SCHLESINGER, Fanglin YANG

1000

BREAK

1030 JSA02/02A/A10-005

MESOSPHERIC RESPONSE TO SOLAR AND HUMAN INDUCED FORCING
Gufran BEIG

1055 JSA02/02A/A10-006

RADAR STUDIES OF THE DYNAMICS OF THE POLAR MLT
Robert Alan VINCENT, Andrew DOWDY, Iain REID, Damian MURPHY, Yasuhiro MURAYAMA, Kiyoshi IGARASHI, Masaki TSUTSUMI, Takehiko ASO, Werner SINGER, Peter HOFFMANN

1120 JSA02/02A/A10-007

DYNAMICAL FIELDS IN THE MESOPAUSE REGION: INSIGHTS FROM THE EXTENDED CMAM
William Edmund WARD

1145 JSA02/02A/A10-008

THE EFFECT OF SOLAR VARIABILITY ON CHEMISTRY AND DYNAMICS OF THE MESOSPHERE/LOWER THERMOSPHERE AS SIMULATED WITH HAMMONIA
Hauke SCHMIDT, Guy P. BRASSEUR, Martin CHARRON, Marco GIORGETTA, Elisa MANZINI

1200 JSA02/02A/A10-009

NOY IMPULSIVE PRECIPITATION EVENTS FROM VERY LARGE FLUENCE SOLAR PROTON EVENTS
Don Frederick SMART, Margaret Ann SHEA, Gisela A.M. DRESCHHOFF, Kenneth Gordon MCCracken

1215 JSA02/02A/A10-010

EXTERNAL FORCING ON THE CLIMATOLOGICAL IONOSPHERIC FEATURE SUCH AS FMIN.
Edward S. KAZIMIROVSKY, Victor D. KOKOUROV, Galina V. VEGASOVA

JSA11

Wednesday, July 2 AM

TWENTY YEARS OF THE OCEAN DRILLING PROGRAM (IAGA, IAMAS, IAPSO, IASPEI, IAVCEI)

Location: Site A, Room 4

Convener: K. Becker

Co-Conveners: A. Taira, C.G.A. Harrison, N. Pisas
Presiding Chairs: C. Harrison, A. Taira

0910 JSA11/02A/A04-001

PHOSPHORUS: SEDIMENTARY GEOCHEMISTRY, MASS BALANCE, AND OCEAN HISTORY FROM ODP SEDIMENTS
Margaret L. DELANEY, Linda D. ANDERSON, Kristina L. FAUL, Elena B. NILSEN

0935 JSA11/02A/A04-002

DICHOTOMY OF RIFTED MARGINS: VOLCANIC AND NON-VOLCANIC
Hans Christian LARSEN

Wednesday, July 2 AM



U2

Wednesday, July 2 AM

VOLATILES IN VOLCANIC ARCS: FROM SLAB TO STRATOSPHERE

Location: Site D, Room 32

Conveners: R.S.J. Sparks, Y. Tatsumi
Presiding Chairs: R.S.J. Sparks, Y. Tatsumi

0900 U2/02A/D32-001 Invited

GEOPHYSICAL CONSTRAINTS ON SLAB SUBDUCTION
Akira HASEGAWA, Junichi NAKAJIMA

0925 U2/02A/D32-002

PLUMBING THE DEPTHS: TOWARD A COMPREHENSIVE MODEL OF FLUID TRANSPORT, MELTING AND MELT TRANSPORT IN SUBDUCTION ZONES
Marc SPIEGELMAN, Richard F. KATZ

0950 U2/02A/D32-003

GEOCHEMICAL PROCESSES IN THE MANTLE WEDGE
Bernard J. WOOD

1015

BREAK

1030 U2/02A/D32-004 Invited

EVOLUTION OF ARC MAGMAS AND THEIR VOLATILES
Richard John ARCULUS

1100 U2/02A/D32-005 Invited

VOLATILE CONTROLS ON ASCENT AND ERUPTION
Katharine V. CASHMAN

1130 U2/02A/D32-006 Invited

GEOCHEMISTRY OF SUBDUCTION ZONE VOLCANIC GASES
Patrick ALLARD

1200 U2/02A/D32-007 Invited

CLIMATIC IMPACTS OF VOLCANIC GAS EMISSIONS
Alan ROBOCK, Georgiy L. STENCHIKOV

1000 JSA11/02A/A04-003
TALES OF TWO LIPS: KERGUÉLEN PLATEAU/BROKEN RIDGE (INDIAN OCEAN) AND ONTONG JAVA PLATEAU (PACIFIC OCEAN)
Millard F. COFFIN

1025 BREAK

1050 JSA11/02A/A04-004
SEAFLOOR HYDROTHERMAL SYSTEMS AND THE ALTERATION OF OCEANIC LITHOSPHERE: NEW PERSPECTIVES AND FUTURE DIRECTIONS FOR SCIENTIFIC OCEAN DRILLING
Susan E. HUMPHRIS

1115 JSA11/02A/A04-005
UNVEILING THE PERMEABILITY STRUCTURE OF OCEANIC CRUST THROUGH THE OCEAN DRILLING PROGRAM
Keir BECKER, Earl E. DAVIS, Andrew T. FISHER

JSM06 Wednesday, July 2 AM

LAYERED PHENOMENA NEAR THE MESOPAUSE (IAMAS [ICMA], IAGA)

Location: Site B, Room 22

Convener: F.-J. Luebken
Presiding Chair: F.-J. Luebken

0830 JSM06/02A/B22-001 Invited
AN OVERVIEW OF MACWAVE: A PROGRAM TO STUDY GRAVITY FORCING OF THE POLAR MESOSPHERE AND LOWER THERMOSPHERE DURING SUMMER AND WINTER
Richard A. GOLDBERG

0900 JSM06/02A/B22-002
OBSERVATIONS OF SHEAR AND OVERTURNING INSTABILITIES NEAR THE MESOPAUSE
Miguel Folkmar LARSEN, J. HECHT, A. LIU, C. GARDNER, R. BISHOP

0920 JSM06/02A/B22-003
MAUI-MALT OBSERVATIONS OF THE EVOLUTION OF A SECONDARY INSTABILITY IN KELVIN_HELMHOLTZ BILLOWS FORMED NEAR 86 KM ALTITUDE
James H. HECHT, Richard L. WALTERSCHEID, Alan Z. LIU

0940 JSM06/02A/B22-004
MESOSPHERIC TEMPERATURE INVERSIONS SEEN IN A MIDDLE ATMOSPHERE GENERAL CIRCULATION MODEL: THE ROLE OF PLANETARY WAVES
Charles MCLANDRESS, Rink HALLMANN, Theodore SHEPHERD

1000 JSM06/02A/B22-005 Invited
ACTIVE REMOTE SENSING OF NOCTILUCENT CLOUDS (NLC) IN NORTHERN NORWAYSINCE 1997: A RECORD OF HIGH RESOLVED NLC PROPERTIES
Gerd BAUMGARTEN, Jens FIEDLER, Goetz VON COSSART

1030 BREAK

1050 JSM06/02A/B22-006
CHARACTERISTICS OF A POLAR MESOSPHERIC CLOUD OBSERVED BY RAYLEIGH LIDAR AT DAVIS, ANTARCTICA
Andrew R. KLEKOCIUK, Malcolm M. LAMBERT, Robert A. VINCENT

1110 JSM06/02A/B22-007
LIDAR OBSERVATIONS OF POLAR MESOSPHERIC CLOUDS AT ROTHERA, ANTARCTICA (67.5°S, 68.0°W)
Xinzhaoh CHU, Graeme NOTT, Patrick ESPY, Chester S. GARDNER, Jan DIETRICH, David MAXFIELD, Mark CLILVERD, Martin JARVIS

1130 JSM06/02A/B22-008
GROUND-BASED MICROWAVE DETECTION OF SPACE SHUTTLE EXHAUST PLUMES IN THE POLAR LOWER THERMOSPHERE
Paul HARTOGH, Li SONG

1150 JSM06/02A/B22-009
A COMPARISON OF CRISTA AND FALLING SPHERE TEMPERATURES THE ARCTIC SUMMER MESOSPHERE: IMPLICATIONS TO WATER VAPOR SUPERSATURATION
Michael H. STEVENS, Oleg A. GUSEV, Klaus U. GROSSMANN, Martin KAUFMANN, Larry L. GORDLEY, Steven JACOBSON, Franz-Josef LUEBKEN

1210 JSM06/02A/B22-010
OBSERVATIONS OF POLAR MESOSPHERIC CLOUDS FROM THE STUDENT NITRIC OXIDE EXPLORER
Scott M. BAILEY, Aimee W. MERKEL, Gary E. THOMAS

JSM08-Posters Wednesday, July 2 AM

ENERGETICS AND CIRCULATION OF THE MLT REGION AND ITS COUPLING WITH CIRCULATION AND CHEMISTRY OF THE THERMOSPHERE AND STRATOSPHERE (IAMAS [ICMA, ICACGP], IAGA)

Location: Site D

1210-135 JSM08/02A/D-001 Poster
MESOSPHERIC WIND AND TEMPERATURE CHANGES OBSERVED AT POKER FLAT FOLLOWED BY A STRATOSPHERIC SUDDEN WARMING
Kazuyo SAKANOI, Yasuhiro MURAYAMA, Richard L. COLLINS, Yoshinobu MIYOSHI, Kohei MIZUTANI, Shin-ichiro OYAMA

1210-136 JSM08/02A/D-002 Poster
MF RADAR STUDIES OF THE GRAVITY WAVES IN THE MESOSPHERE AND LOWER THERMOSPHERE AT YAMAGAWA (31 N,131 E),JAPAN
Kishore PANGALURU, S.P. NAMBOOTHIRI, K. IGARASHI, Y. MURAYAMA

1210-137 JSM08/02A/D-003 Poster
STATISTICAL STUDY OF SHORT PERIOD WAVES IMAGED IN THE NEAR INFRARED NIGHTGLOW IN YAKUTSK
Peter P. AMMOV, G.A. GAVRILYEVA, M.D. NOGOVITSIN

1210-138 JSM08/02A/D-004 Poster
AN INTERFEROMETRIC MEASUREMENTS OF THE LOWER THERMOSPHERE TEMPERATURE WITH AIRGLOW OXYGEN GREEN LINE ABOVE YAKUTIA (NORTH-EAST RUSSIA)
Semyen V. NIKOLASHKIN, Vasily M. IGNATYEV

1210-139 JSM08/02A/D-005 Poster
A SIMILARITY APPROACH TO THE TEMPERATURE STRUCTURE OF THERMOSPHERE
Alexey O. SEMENOV, Gustav M. SHVED

JSM13 Wednesday, July 2 AM

DATA ASSIMILATION FOR ATMOSPHERIC AND OCEANIC PROCESSES (IAMAS [ICDM, ICCP], IAHS, IAPSO, IAGA, IAG, SPARC)

Location: Site C, Room 28

Presiding Chairs: I. Roulstone, K. Tsuboki

RAINFALL ASSIMILATION

0830 JSM13/02A/C28-001 Invited
FSU RESEARCH ON HURRICANE SUPERENSEMBLE
Tiruvalam N. KRISHNAMURTI, S.Vijaya KUMAR

0900 JSM13/02A/C28-002
THREE-DIMENSIONAL VARIATIONAL DATA ASSIMILATION OF SSM/I PRECIPITABLE WATER AND QSCAT OCEAN WIND IN THE LANDFALL TYPHOON RUSA SIMULATION
Dong-Kyou LEE, Seung-Woo LEE, Jo-Han LEE

0920 JSM13/02A/C28-003
ASSIMILATING SINGLE DOPPLER-RADAR TYPHOON VORTEX OBSERVATION INTO MM5 FOR MODEL INITIALIZATION
Chia-Hui CHIANG, Tim Hau LEE

0940 JSM13/02A/C28-004
NUMERICAL SIMULATION OF TROPICAL CLOUD CLUSTERS WITH NUDGING GMS SATELLITE AND DOPPLER RADAR DATA
Tomoki USHIYAMA, Ryuichi SHIROOKA, Masaki KATSUMATA

1000 JSM13/02A/C28-005
HIGH-FREQUENCY DATA ASSIMILATION INCLUDING RADAR, SATELLITE, AND CONVENTIONAL DATA IN THE 20-KM RUC
Stan BENJAMIN, Stephen WEYGANDT, Dongsoo KIM

1020 BREAK

1040 JSM13/02A/C28-006 Invited
CLOUD SCALE DATA ASSIMILATION
Andrew CROOK

1110 JSM13/02A/C28-007
ASSIMILATION OF MULTI-SATELLITE PRECIPITATION DATA FOR IMPROVING QUANTITATIVE PRECIPITATION FORECASTS
Zhaoxia PU

1130 JSM13/02A/C28-008
THE APPLICATION OF THREE-DIMENSIONAL VARIATIONAL DATA ASSIMILATION SCHEME FOR A MESOSCALE LIMITED AREA MODEL
Steluta ALEXANDRU, Andras HORANYI

1150 JSM13/02A/C28-009
DATA ASSIMILATION FOR SHORT TERM FORECASTING OF SNOWBANDS USING A MESOSCALE MODEL
Mei XU, Yubao LIU, N. Andrew CROOK, Roy RASMUSSEN

1210 JSM13/02A/C28-010
VALIDATION OF PRECIPITATION DERIVED FROM THE GAME REANALYSIS WITH OBSERVATION
Nobuo YAMAZAKI, Kiyotoshi TAKAHASHI, Akiyo YATAGAI, Hiromichi IGARASHI, Yoshiki FUKUTOMI

JSM17 **Wednesday, July 2 AM**
MIXING AND ITS PARAMETERIZATION IN GEOPHYSICAL FLUIDS (IAMAS, IAPSO, IAHS)
Location: Site C, Room 31

Convener: B.R. Sutherland
Co-Convener: T. McDougall
Presiding Chair: B.R. Sutherland

0900 JSM17/02A/C31-001 Invited
TOWARDS A PARAMETERIZATION OF GEOSTROPHICOCEAN TURBULENCE
David P. MARSHALL, Susan T. ADCOCK

0930 JSM17/02A/C31-002
PARAMETERIZING MESOSCALE EDDIES IN AN EDDY-RESOLVING GLOBAL OCEAN MODEL
Trevor John MCDUGALL

0950 JSM17/02A/C31-003
INFERRING EDDY STRESSES BY FITTING DYNAMICS TO OBSERVATIONS
David FERREIRA, John MARSHALL, Patrick HEIMBACH, Chris HILL

1010 JSM17/02A/C31-004
DENSITY RATIO DISTRIBUTION IN THE NORTH PACIFIC FROM WOCE DATA
Jiro YOSHIDA, Hideki NAGASHIMA, Ryuichiro INOUE, Masato KOKAJI, Keishi SHIMADA

1030 BREAK

1050 JSM17/02A/C31-005
MIXING IN THE EQUATORIAL PACIFIC
Kelvin RICHARDS

1110 JSM17/02A/C31-006
REPRESENTING EDDY FLUXES IN A COARSE RESOLUTION OCEAN MODEL
Wilco HAZELEGER, Sybren DRIJFHOUT

1130 JSM17/02A/C31-007
USING A TRACER-BASED COORDINATE SYSTEM TO OBTAIN A QUANTIFICATION OF EDDY DIFFUSIVITY IN THE OCEAN
Emily SHUCKBURGH, John MARSHALL, Helen JONES, Chris HILL

1150 JSM17/02A/C31-008
LARGE EDDY SIMULATION OF THE OCEAN MIXED LAYER AND ITS APPLICATION TO THE OCEAN MIXED LAYER MODELING
Yign NOH

1210 JSM17/02A/C31-009
VERTICAL AND HORIZONTAL MIXING IN THE OCEAN
Vittorio M. CANUTO

JSP01 **Wednesday, July 2 AM**
THE DECADAL TO CENTENNIAL VARIABILITY OF THE OCEAN AND ATMOSPHERE (IAPSO, IAMAS, CLIVAR)
Location: Site B, Room 21

Presiding Chairs: D.S. Battisti, S. Levitus

0830 JSP01/02A/B21-001
THE OBSERVATIONAL EVIDENCE FOR CLIMATE CHANGE IN THE SOUTHERN OCEAN AND ITS FINGERPRINT
Nathan L. BINDOFF, Shigeru AOKI, Helene T. BANKS

0900 JSP01/02A/B21-002
DECADAL VARIABILITY IN SOUTHERN INDIAN OCEAN WATER MASS PROPERTIES
Harry L. BRYDEN, Elaine L. MCDONAGH, Brian A. KING

0920 JSP01/02A/B21-003
OCEAN MIXING AND THE TROPOSPHERIC GLOBAL WARMING RESPONSE
Daithi A. STONE, John C. FYFE

0940 JSP01/02A/B21-004
LONG-TERM VARIATIONS IN THE RAINFALL OF SOUTHWEST AUSTRALIA AND THE AFRICAN SAHEL, LINKED BY THE SUBTROPICAL JET STREAM
Peter G. BAINES, Ian SMITH

1000 BREAK

1030 JSP01/02A/B21-005
OCEAN WARMING AND EARTH'S HEAT BALANCE
Sydney LEVITUS

1100 JSP01/02A/B21-006
CLIMATE MODEL SIMULATES GLOBAL COLD CLIMATE AND LARGE-SCALE NORTH ATLANTIC SEA-ICE ANOMALIES DURING LATE MAUNDER MINIMUM (1675-1710)
Hans VON STORCH, Fidel GONZALEZ-RUOCO, Ulrich CUBASCH, Juerg LUTERBACHER, Eduardo ZORITA, Beate MUELLER, Stephanie LEGUTKE, Ulrich SCHLESE

1120 JSP01/02A/B21-007
THE CONTRIBUTION OF WESTERN BOUNDARY CURRENTS TO GLOBAL CLIMATE
Kathryn A. KELLY, Shenfu DONG

1140 JSP01/02A/B21-008
THE INFLUENCE OF DECADAL ANNULAR MODE VARIABILITY ON THE TROPICS
Todd P. MITCHELL, John M. WALLACE

1200 JSP01/02A/B21-009
DECADAL VARIABILITY OF THE ANTARCTIC CLIMATE SYSTEM
John TURNER

JSS02-Posters **Wednesday, July 2 AM**
RECENT DESTRUCTIVE EARTHQUAKES (IASPEI, IAG)
Location: Site D

Presiding Chair: H. Gupta

0900-164 JSS02/02A/D-001 Poster
SCALED ENERGY OF TWENTY LARGER AFTERSHOCKS OF THE 1999, CHI-CHI (TAIWAN) EARTHQUAKE
Ming-Wey HUANG, Jeen-Hwa WANG

0900-165 JSS02/02A/D-002 Poster
AFTERSHOCK DISTRIBUTION AND SOURCE PARAMETERS OF THE 22 JUNE 2002, CHANGGUREH EARTHQUAKE (MW 6.5), NORTHWEST IRAN
Sadaomi SUZUKI, Hossein SADEGHI, Sayyed Keivan HOSSEINI, Yushiro FUJII, Sayyed Mahmoud FATEMI AGHDA

0900-166 JSS02/02A/D-003 Poster
AN INTENSITY SURVEY IN MINDANAO, PHILIPPINES AFFECTED BY THE MARCH 6, 2002 (MW 7.2) PALIMBANG EARTHQUAKE
Maria Leonila Pascual BAUTISTA, Vilma Castillejos HERNANDEZ, Joan Cruz SALCEDO, Bartolome Caparas BAUTISTA, Raymundo Santiago PUNONGBAYAN

0900-167 JSS02/02A/D-004 Poster
IS IT AN IMMATURE ACTIVE FAULT? ---- MINIMUM-SIZE SURFACE FAULT RUPTURE ASSOCIATED WITH THE 2000 TOTTORI-KEN SEIBU EARTHQUAKE, JAPAN
Yuichiro FUSEJIMA, Kiyohide MIZUNO, Ryusuke IMURA, Yuichi SUGIYAMA, Toshikazu YOSHIOKA, Masanobu SHISHIKURA, Taku KOMATSUBARA, Haruko SEKIGUCHI, Yasuo AWATA

0900-168 JSS02/02A/D-005 Poster
PRELIMINARY RESULTS OF GPS STUDIES FOR THE JANUARY 2001 GUJARAT EARTHQUAKE IN INDIA
Madhav N. KULKARNI, Supriya LIKHAR, V. S. TOMAR, P. PILLAI

0900-169 JSS02/02A/D-006 Poster
IMAGE OF THE FAULT PLANE AND CRUSTAL STRUCTURE FOR THE 2001 GUJARAT, INDIA EARTHQUAKE FROM AFTERSHOCK OBSERVATIONS: A DEEP CRUSTAL EVENT WITH HIGH STRESS DROP
Hiroaki NEGISHI, James J. MORI, Tamao SATO, Sushil KUMAR, Ramesh SINGH, Paul BODIN, B.K. RASTOGI

0900-170 JSS02/02A/D-007 Poster
MODELING DYNAMIC RUPTURE PROCESS OF THE 1999 CHICHI EARTHQUAKE AND THE NEAR SOURCE STRONG GROUND MOTION SIMULATION
Wenbo ZHANG, Tomotaka IWATA, Kojiro IRIKURA, Arben PITARKA, Haruko SEKIGUCHI

0900-171 JSS02/02A/D-008 Poster
STUDY ON THE SATELLITE INFRARED ANOMALIES BEFORE 2001 KUNLUN MS8.1 EARTHQUAKE
Mei-hua CHEN, Zhi-hui DENG, Zu-ji QIANG

0900-172 JSS02/02A/D-009 Poster
THE GRAVITY STUDY OF THE EARTHQUAKE OF MS8.1 OCCURRED IN THE WEST TO KUNLUN MOUNTAIN
Guangyu FU

WEEK
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JSV04**Wednesday, July 2 AM****RECENT ADVANCES IN QUANTITATIVE VOLCANO****SEISMOLOGY (IAVCEI, IASPEI)**

Location: Site A, Room 7

Presiding Chairs: B. Chouet, H. Kumagai

0830 JSV04/02A/A07-001

ACOUSTIC MEASUREMENTS OF THE 1999 SHISHALDIN ERUPTION, ALASKA: BASALTIC SUBPLINIAN

Sylvie VERGNIOLE, Marie BOICHU, Jackie CAPLAN-AUERBACH

0845 JSV04/02A/A07-002

VENT DISCRIMINATION FOR VOLCANO PUFFERS AND CHUGGERS

Jonathan M. LEES, April MCGREGER

0900 JSV04/02A/A07-003

VENT DISCRIMINATION AT STROMBOLI VOLCANO, ITALY

April Denise MCGREGER, Jonathan M. LEES

0915 JSV04/02A/A07-004

CONDUIT GEOMETRY AT STROMBOLI VOLCANO, ITALY, AND SOURCE DYNAMICS OF STROMBOLIAN EXPLOSIONS DETERMINED FROM WAVEFORM INVERSIONS OF LONG-PERIOD AND VERY-LONG-PERIOD DATA

Bernard CHOUET, Phillip DAWSON

0930 JSV04/02A/A07-005

MECHANISM OF EXPLOSIVE ERUPTIONS FROM SOURCE MECHANISM ANALYSES OF EXPLOSION EARTHQUAKES AT SAKURAJIMA VOLCANO

Takeshi TAMEGURI, Masato IGUCHI, Kazuhiro ISHIHARA

0945 JSV04/02A/A07-006

SOURCE MECHANISM OF VERY LONG PERIOD SEISMIC EVENTS ASSOCIATED WITH THE 2000-2002 VOLCANIC UNREST OF MOUNT BANDAI, JAPAN

Takeshi NISHIMURA, Hironori HASHINO, Hiroyuki HAMAGUCHI

1000 BREAK**1030 JSV04/02A/A07-007**

SOURCE MECHANISM OF LONG-PERIOD EVENTS AT KUSATSU-SHIRANE VOLCANO, JAPAN, INFERRED FROM WAVEFORM INVERSION OF THE EFFECTIVE EXCITATION FUNCTIONS

Masaru NAKANO, Hiroyuki KUMAGAI, Bernard A. CHOUET

1045 JSV04/02A/A07-008

DEEP AND INTERMEDIATE-DEPTH LOW-FREQUENCY EARTHQUAKES BENEATH IWATE VOLCANO, NORTHEASTERN JAPAN

Haruhisa NAKAMICHI, Hiroyuki HAMAGUCHI, Satoru TANAKA, Sadato UEKI, Takeshi NISHIMURA, Akira HASEGAWA

1100 JSV04/02A/A07-009

INTERMEDIATE-TERM DECLINES IN SEISMICITY AT TWO VOLCANOES IN ALASKA FOLLOWING THE MW7.9 DENALI FAULT EARTHQUAKE

Stephen R. MCNUTT

1115 JSV04/02A/A07-010 Invited

EARTHQUAKE TRIGGERING BY VOLCANO-TECTONIC EVENTS: AN EXAMPLE FROM THE 2000 IZU ISLANDS SWARM

Shinji TODA, Ross S. STEIN, Takeshi SAGIYA

1135 JSV04/02A/A07-011 Invited

A MAGMA INTRUSION PROCESS AT EAST OFF THE IZU PENINSULA, CENTRAL JAPAN

Yuichi MORITA, Shigeru NAKAO, Yoshinari HAYASHI

1155 JSV04/02A/A07-012

MAGMATIC DIKE RESONANCES INFERRED FROM VERY-LONG-PERIOD SEISMIC SIGNALS

Hiroyuki KUMAGAI, Koji MIYAKAWA, Hiroaki NEGISHI, Hiroshi INOUE, Kazushige OBARA, Daisuke SUETSUGU

G

IAG

G01**Wednesday, July 2 AM****POSITIONING. MEETING OF IAG SECTION I**

Location: Site C, Room 24

Convener: A. Dodson
Presiding Chair: C. Rizos**DATA MODELLING AND NEW TECHNOLOGIES****0830 G01/02A/C24-001**

REPORT ON THE ACTIVITIES OF IAG SECTION 1

Alan Henry DODSON, Chris RIZOS

0845 G01/02A/C24-002

IAG SSG 1.179: WIDE AREA MODELLING FOR PRECISE SATELLITE POSITIONING

Shaowei HAN, Chris RIZOS

0900 G01/02A/C24-003

THE ANALYSIS OF GPS PERMANENT NETWORK SOLUTIONS: THE IMPACT OF TEMPORAL CORRELATIONS

Mattia CRESPI, Riccardo BARZAGHI, Alessandra BORGHI, Grazia PIETRANTONIO, Federica RIGUZZI

0920 G01/02A/C24-004

TOWARD MORE RELIABLE ESTIMATION OF GPS POSITIONING ACCURACY

Jan S. KRYNSKI, Yevgen M. ZANIMONSKIY

0940 G01/02A/C24-005

REALISTIC UNCERTAINTY MEASURES FOR GPS OBSERVATIONS

Steffen SCHÖ, Hansjörg KUTTERER

1000 G01/02A/C24-006

ALTERNATIVES FOR THE MODELING OF UNCERTAINTY IN GEODETIC POSITIONING

Hansjoerg KUTTERER, Steffen SCHOEN

1020 BREAK**1040 G01/02A/C24-007**

POINT REAL-TIME KINEMATIC POSITIONING

Yang GAO

1100 G01/02A/C24-008

NETWORKED TRANSPORT OF RTCM VIA INTERNET PROTOCOL

Georg WEBER, Harald GEBHARD, Denise DETTMERING

1120 G01/02A/C24-009

LONG RANGE DIFFERENTIAL GNSS FOR POSITIONING OF AIRBORNE SENSORS

Narve KJØRSVIK, Ola ØVSTEDAL, Jon Glenn Gjevestad SVENDSEN

1140 G01/02A/C24-010

VORONOI CELLS, PROBABILISTIC BOUNDS AND HYPOTHESIS TESTING IN MIXED INTEGER LINEAR MODELS

Peiliang XU

1200 G01/02A/C24-011

ISO2002: AN ANALYTICAL STOCHASTIC MODEL OF MULTI-DIFFERENCE GPS CARRIER PHASE DATA

Chuandong ZHANG, Xiaoping WU, Jinming HAO, Haibo HE

1220 G01/02A/C24-012

MODELING DIFFERENTIAL GPS ERRORS USING KRIGING AND BIHARMONIC MODEL TO SUPPORT RTK POSITIONING WITH MULTIPLE REFERENCE STATIONS

Dorota A. GREJNER-BRZEZINSKA, Yudan YI

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IAGA

GAI.05**Wednesday, July 2 AM****OBSERVATIONAL CONSTRAINTS ON FIELD BEHAVIOR:****(PALEO) SECULAR VARIATION, PALEOINTENSITY, REVERSAL FREQUENCY AND AGE DATING (SEDI)**

Location: Site A, Room 8

Presiding Chair: M.J. Dekkers

0830 GAI.05/02A/A08-001

ORIGIN OF 100-KYR PERIODICITY IN PALEOMAGNETIC RECORD: AN APPROACH BY WAVELET ANALYSIS

Hirokuni ODA, Toshitsugu YAMAZAKI, Cor G. LANGEREIS

0850 GAI.05/02A/A08-002

ORBITAL FORCING IN THE MIDDLE ORDOVICIAN KRIVAYA LUKA SECTION (SOUTHERN SIBERIAN PLATFORM): IMPLICATIONS FOR THE DURATION OF MAGNETIC POLARITY ZONES

Mark J. DEKKERS, V.P. RODIONOV, A.N. KHRAMOV, E.L. GUREVITCH, W. KRIJGSMAN, C.E. DUERMEIJER, D. HESLOP

0910 GAI.05/02A/A08-003

SUB-MILLENNIAL SCALE FEATURES OF THE MATUYAMA-BRUNHES POLARITY TRANSITION IN A CORE FROM OSAKA BAY, SOUTHWESTERN JAPAN

Masayuki HYODO, Dipak Kumar BISWAS, Takako NODA, Chizu ITOTA, Hiroshi SATO

0930 GAI.05/02A/A08-004

HIGH-RESOLUTION PALEOMAGNETIC RECORDS OF THE IMAGES PISTON CORES RECOVERED FROM THE JAPAN SEA AND THE WESTERN NORTH PACIFIC

Akira HAYASHIDA, So HATTORI, Hirokuni ODA

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0950	BREAK
1030	GAI.05/02A/A08-005
TEN YEARS AFTER/ THE SAW-TOOTH PATTERN OF PALEOINTENSITY RECORDS	
Jean-Pierre M. VALET, Laure M. MEYNADIER	
1050	GAI.05/02A/A08-006
PALEOMAGNETIC SECULAR VARIATION PATTERN OF MARINE SEDIMENT CORE MD012414 FROM OKHOTSK SEA	
Teh-Quei LEE	
1110	GAI.05/02A/A08-007
PALEOMAGNETIC INVESTIGATIONS OF RELATIVE PALEOINTENSITY VARIATIONS RECORDED IN ROXOLANY LOESS-SOIL OUTCROP	
Olga V. PILIPENKO, Zinaida V. SHARONOVA, Valeriy M. TRUBIKHIN, Andrey G. FEIN	
1130	GAI.05/02A/A08-008
FINE STRUCTURE OF GEOMAGNETIC FIELD VARIATIONS RECORDED IN HOLOCENE EUROPE LAKES SEDIMENTS	
Olga V. PILIPENKO, Victor G. ZAHAROV, Zinaida V. SHARONOVA	
1150	GAI.05/02A/A08-009
ARCHAEOMAGNETIC SECULAR VARIATIONS - RELIABILITY AND APPLICABILITY FOR DATING PURPOSES	
Mary J. KOVACHEVA, Neli V. JORDANOVA, Maria A. KOSTADINOVA	

GAII.03	Wednesday, July 2 AM
MEASUREMENT TECHNIQUES IN THE MIDDLE/UPPER ATMOSPHERE AND IONOSPHERE (IAGA, ICMA)	
Location: Site A, Room 13	

Presiding Chairs: A.E. de la Torre, M. Tsutsumi

0830	GAII.03/02A/A13-001
A NEW MF RADAR SYSTEM FOR STUDYING THE MESOSPHERE	
Robert A. VINCENT, Andrew MACKINNON, Iain REID, Werner SINGER, Ralph LATTECK, Richard MAYO, David HOLDSWORTH	
0905	GAII.03/02A/A13-002
A NEW NARROW BEAM DOPPLER AND SPACED ANTENNA RADAR EXPERIMENT AT 3 MHZ FOR STUDIES OF THE HIGH-LATITUDE MIDDLE ATMOSPHERE: SYSTEM DESCRIPTION AND FIRST RESULTS	
Werner SINGER, Ralph LATTECK, David A. HOLDSWORTH	
0925	GAII.03/02A/A13-003
PROGRAM OF THE ANTARCTIC SYOWA MST/IS RADAR (PANSY)	
Masaki EJIRI, Kaoru SATO, Masaki TSUTSUMI, Toru SATO, Akinori SAITO, Takehiko ASO, Takashi YAMANOUCHI	
0945	GAII.03/02A/A13-004
HUMIDITY PROFILING WITH THE MU RADAR-RASS AND GPS MEASUREMENTS	
Jun-ichi FURUMOTO, Kenji KURIMOTO, Toshitaka TSUDA	
1005	GAII.03/02A/A13-005
FORECASTING OF IONOSPHERIC HF CHANNEL BY THE ARTIFICIAL NEURAL NETWORKS METHOD	
Nikolai A. BARKHATOV, Alexey A. PONYATOV, Valery P. URYADOV, Olga A. BARKHATOVA, Sergey E.REVUNOV	

1025	BREAK
1050	GAII.03/02A/A13-006
THE RELATION BETWEEN VHF BAND BROADCASTING WAVES FROM OVERSEAS AND PLASMA BUBBLES	
H. NAKATA, I. NAGASHIMA, Y. OTSUKA, T. TAKANO, K. SAKAI, K. SHIOKAWA, T. OGAWA	
1110	GAII.03/02A/A13-007
BROADBAND OBSERVATIONS OF PROPAGATION ANOMALY OF VHF WAVES TRANSMITTED FROM OVERSEA BROADCASTING STATIONS	
Toshiaki TAKANO, Kurt SAKAI, Takayoshi KITAGAWA, Takeshi OHKAWARA, Satoshi UJIGAWA, Han HIGASA, Shin SHIMAKURA	
1130	GAII.03/02A/A13-008
DEVELOPMENT OF NEW INSTRUMENTS FOR NIGHT AIRGLOW STUDIES	
Girija Kumar MUKHERJEE	
1150	GAII.03/02A/A13-009
RAY TRACING OF VHF RADIO WAVES PROPAGATED ACROSS MAGNETIC EQUATOR	
Satoshi UJIGAWA, Toshiaki TAKANO, Hiroyuki NAKATA, Shin SHIMAKURA	

GAIII.03	Wednesday, July 2 AM
HOW, WHEN, WHERE, AND WHY DO MAGNETIC RECONNECTION OCCUR?	
Location: Site A, Room 12	

Convener: M.P. Freeman
Co-Conveners: J.F. Drake, J. Raeder, P.E. Sandholt
Presiding Chair: M.P. Freeman

0830	GAIII.03/02A/A12-001
EFFECT OF LARGE-SCALE MAGNETIC RECONNECTIONS ON THESELF-ORGANIZED MAGNETOTAIL CURRENT SYSTEM	
Alexander V. MILOVANOVA, Lev M. ZELENYYI, Gaetano ZIMBARDO, Pierluigi VELTRI	
0855	GAIII.03/02A/A12-002
STOCHASTIC RECONNECTION IN ASTROPHYSICAL SYSTEMS	
Ethan T. VISHNIAC, Alex LAZARIAN	
0920	GAIII.03/02A/A12-003
OBSERVATIONS OF THE MAGNETOTAIL RECONNECTION RATE AND ITS RELATIONSHIP TO THE OCCURRENCE OF AURORAL POLEWARD BOUNDARY INTENSIFICATIONS (PBIS).	
Mike PINNOCK, Mai-Mai LAM, Eric DONOVAN	
0940	GAIII.03/02A/A12-004
DIFFERENCES BETWEEN EARTHWARD AND TAILWARD FLOWS IN THEIR DEPENDENCES ON IMF AND GEOMAGNETIC CONDITIONS	
Akimasa IEDA, Toshifumi MUKAI, Shinobu MACHIDA, J.-H. SHUE, S.-I. OHTANI, Tsugunobu NAGAI, Yoshifumi SAITO	
1000	GAIII.03/02A/A12-005
CLUSTER OBSERVATIONS OF THE NEUTRAL SHEET DURING SUBSTORMS ON AUGUST 22, 2001	
C.J. XIAO, Z.Y. PU, Z.Y. HUANG, S.Y. FU, Q.G. ZONG, K.H. GLASSMEIER, Z.X. LIU	

1020	BREAK
1040	GAIII.03/02A/A12-006
AN ANALYSIS OF RECONNECTION MODELS AT MAGNETOPAUSE BASED ON CLUSTER OBSERVATIONS	
Philippe LOUARN, E. BUDNIK, A. FEDOROV, H. STENUIT, J.A. SAUVAUD, J.M. BOSQUED, H. REME, A. BALOGH, M. DUNLOP, A. FAZAKERLEY, N. CORNILLEAU-WERHLIN	
1105	GAIII.03/02A/A12-007
ON THE EFFECT OF SCALE-FREE SOLAR WIND STRUCTURE ON THE SPATIO-TEMPORAL STRUCTURE OF MAGNETOSPHERIC RECONNECTION AND CONVECTION.	
Mervyn P. FREEMAN	
1125	GAIII.03/02A/A12-008
AN INVESTIGATION INTO THE VARIATION OF MULTI-SCALE GROUND MAGNETIC FLUCTUATIONS BETWEEN DIFFERENT GEOPHYSICAL REGIONS	
Gary A. ABEL, Mervyn P. FREEMAN	
1145	GAIII.03/02A/A12-009
SOLAR WIND PRESSURE: AN IMPORTANT DRIVER OF LARGE-SCALE MAGNETOSPHERIC RECONNECTION AND CONVECTION	
Athanasios BOUDOURIDIS, Eftyhia ZESTA, Larry R. LYONS, Phillip C. ANDERSON	
1205	GAIII.03/02A/A12-010
THE SUBSOLAR RECONNECTION RATE AS A FUNCTION OF SOLAR WIND PARAMETERS: THEORY AND EXPERIMENTAL TEST	
Mervyn P. FREEMAN	

GAIIV.01	Wednesday, July 2 AM
THE DYNAMIC SUN, ITS ATMOSPHERE AND WIND	
Location: Site A, Room 6	

Presiding Chairs: T. Gombosi, R. Esser

0830	GAIIV.01/02A/A06-001	
ON THE PERIODICTY OF SOLAR CORONAL HOLES		
Virendra Kumar VERMA		
0850	GAIIV.01/02A/A06-002	Invited
CORONAL HOLES DURING THE PAST SOLAR CYCLE		
Mari Paz MIRALLES		
0920	GAIIV.01/02A/A06-003	Invited
THE OBSERVED DEPENDENCE OF THE THERMAL ANISOTROPY OF SOLAR WIND PROTONS ON THEIR PARALLEL PLASMA BETA		
Chuanyi TU, Xianzhi AO, Eckart MARSCH		
0950	GAIIV.01/02A/A06-004	Invited
THE CHROMOSPHERE-SOLAR WIND COUPLING		
Oystein LIE-SVENDSEN, Viggo H. HANSTEEN, Egil LEER		

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1010 GAIV.01/02A/A06-005
GYROTROPIC MODELLING OF THE SOLAR WIND MINOR ION OUTFLOW AND COMPOSITION
Øystein LIE-SVENDSEN, Ruth ESSER, Viggo H. HANSTEEN

1030 BREAK

1100 GAIV.01/02A/A06-006
THE MINOR IONS OF THE SOLAR WIND: PSEUDO-HEATING BY VELOCITY FILTRATION AND ACCELERATION IN EXOSPHERIC MODELS
Viviane PIERRARD, Herve LAMY

1120 GAIV.01/02A/A06-007
TWO-PARTICLE KINETIC MODEL OF THE FAST SOLAR WIND
Natalya R. MINKOVA, Yegor M. VASENIN, Alexander V. SHAMIN

1140 GAIV.01/02A/A06-008 Invited
TWO-FLUID MHD MODELS OF THE SOLAR CORONA; PROTON HEATING AND MASS LOSS FROM THE HELMET STREAMER
Eirik ENDEVE, Egil LEER

1200 GAIV.01/02A/A06-009 Invited
SYNOPTIC MAP DRIVEN MHD SIMULATIONS OF A 3D SOLAR WIND
Tamas I. GOMBOSI, Ilia I. ROUSSEV, Ward B. MANCHESTER, Igor V. SOKOLOV, Darren L. DE ZEEUW, Paulett C. LIEWER, Janet G. LUHMANN



MI02 Wednesday, July 2 AM

CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)
Location: Site B, Room 17

Presiding Chairs: L. Barrie, R.W. Berastrom, S. Ohta

0900 MI02/02A/B17-001 Invited
OPTICAL PROPERTIES OF ATMOSPHERIC AEROSOLS IN RELATION WITH THE CHEMICAL CHARACTERIZATION
Sachio OHTA

0930 MI02/02A/B17-002
MEASUREMENTS OF AEROSOL HYGROSCOPIC GROWTH AT MARINE AND CONTINENTAL SITES
John A. OGREN

0945 MI02/02A/B17-003
SIMULTANEOUS PROFILING OF ATMOSPHERIC TEMPERATURE, HUMIDITY, AND OPTICAL PARTICLE PROPERTIES WITH COMBINED RAMAN LIDAR
Andreas BEHRENDT, Takuji NAKAMURA, Toshitaka TSUDA

1000 MI02/02A/B17-004
STRUCTURE OF THE DUST LAYER OVER THE TAKLAMAKAN DESERT OBSERVED BY A NEWLY DEVELOPED LIDAR
Kenji KAI, Nobumitsu TSUNEMATSU, Takuya MATSUMOTO, Shunjun HU, Hongfei ZHOU, Yasunori NAKAYAMA, Boyu XU, Tsunekazu YASOJIMA, Tomohiro NAGAI, Takatsugu MATSUMURA, Makoto ABO

1015 MI02/02A/B17-005
CHARACTERISTICS OF ATMOSPHERIC AEROSOLS OVER GADANKI(13.5 N, 79.2E): LIDAR AND RADIOMETRIC OBSERVATIONS
Jaya Rao Y, Atul Kumar SRIVASTAVA, Devara P C S, Sunil SONBAWNE, Bhavani Kumar Y

1030 BREAK

1100 MI02/02A/B17-006
AN INTEGRATED APPROACH FOR THE STUDY OF THE AEROSOL INDIRECT EFFECT : FROM OBSERVATIONS TO GCMS
Jean-Louis BRENGUIER

1115 MI02/02A/B17-007
CONTRIBUTIONS OF LONG-RANGE TRANSPORT AEROSOL TO CHEMICAL AND OPTICAL PROPERTIES OF ATMOSPHERIC AEROSOL SAMPLED AT KWANGJU, KOREA.
Kyung W. KIM, Young J. KIM, Zhuanshi HE

1130 MI02/02A/B17-008
THE SPECTRAL ABSORPTION OF SOLAR RADIATION BY DUST, BIOMASS BURNING AND POLLUTION AEROSOLS DERIVED FROM AIRBORNE FIELD OBSERVATIONS
Robert W. BERGSTROM, Peter PILEWSKIE, Beat SCHMID

1145 MI02/02A/B17-009
A METHOD FOR SATELLITE REMOTE SENSING OF AEROSOLS OVER LAND SURFACES USING GLI'S UV-CHANNEL
Robert HOELLER, A. HIGURASHI, T. NAKAJIMA, T.Y. NAKAJIMA

1200 MI02/02A/B17-010
IMPLICATION OF HUMAN ACTIVITY IN LOW-LEVEL CLOUDS OVER CHINA VIA LONG-TERM MONITORING FROM SATELLITES
Kazuaki KAWAMOTO, Tadahiro HAYASAKA, Teruyuki NAKAJIMA, David STREET, Jung-Hun WOO

1215 MI02/02A/B17-011
SPACE BORNE CLOUD AND AEROSOL MEASUREMENTS BY THE GEOSCIENCE LASER ALTIMETER SYSTEM: INITIAL RESULTS
James D. SPINHIRNE, Steven P. PALM, Dennis L. HLAVKA, William D. HART, Ellsworth J. WELTON, Ashwin MAHESH

MC06 Wednesday, July 2 AM

MESOSCALE FLOW REGIMES AND BOUNDARY LAYER PROCESSES (ICDM)

Location: Site C, Room 26

Presiding Chair: M. Murakami

1050 MC06/02A/C26-001
RECENT OBSERVATIONS OF ATMOSPHERIC BORES
Roger K. SMITH, Michael J. REEDER

1110 MC06/02A/C26-002
NUMERICAL SIMULATIONS OF KATABATIC JUMPS IN COASTS LAND, ANTARCTICA
Ye YU, Xiaoming CAI, Ian A. RENFREW, John C. KING

1130 MC06/02A/C26-003
AN OBSERVATIONAL STUDY OF GAP WIND THROUGH MANJIL VALLEY
Nasim ALAVI, Abasali Ali akbari BIDOKHTI

1150 MC06/02A/C26-004
THE RELATIONS BETWEEN THE DIURNAL VARIATION OF THE MESOSCALE AIR-PRESSURE SYSTEM AND THE LOCAL FRONT IN CENTRAL JAPAN IN WINTER
Junji NISHINA

1210 MC06/02A/C26-005
GENERATION OF CONVECTION BY HEATED TERRAIN
Andrew CROOK, Donna TUCKER

MC06-Posters Wednesday, July 2 AM

MESOSCALE FLOW REGIMES AND BOUNDARY LAYER PROCESSES (ICDM)

Location: Site D

Presiding Chair: J. Nielsen-Gammon

0900-274 MC06/02A/D-001 Poster
EFFECTS OF RAINFALL ON SATELLITE COMMUNICATION LINKS FROM THE EQUATORIAL ATMOSPHERIC RADAR TO JAPAN
Yasuyuki MAEKAWA, Tadashi FUJIWARA, Yoshiaki SHIBAGAKI, Toru SATO, Hiroyuki HASHIGUCHI, Mamoru YAMAMOTO, Shoichiro FUKAO

0900-275 MC06/02A/D-002 Poster
WINTERTIME THUNDER CLOUD OBSERVATIONS USING MULTI-WAVELENGTH RADAR TECHNIQUES ALONG THE COAST OF MIKUNI
Yasuyuki MAEKAWA, Yoshiaki SHIBAGAKI, Shinsuke OGATA, Yasuo SONOI, Michihiro TESHIBA, Hiroyuki HASHIGUCHI, Shoichiro FUKAO

0900-276 MC06/02A/D-003 Poster
RADAR OBSERVATIONS OF WINTERTIME THUNDER CLOUDS RELATED TO THE LOCATION AND HEIGHT OF LIGHTNING DISCHARGES
Shinsuke OGATA, Yoshiaki SHIBAGAKI, Yasuyuki MAEKAWA, Yasuo SONOI, Zen-Ichiro KAWAKAKI, Michihiro TESHIBA, Hiroyuki HASHIGUCHI, Shoichiro FUKAO

0900-277 MC06/02A/D-004 Poster
WIND PROFILER OBSERVATIONS OF PRECIPITATION SYSTEMS NEAR A BAIU-FRONTAL CYCLONE
Kosuke ARAKI, Yoshiaki SHIBAGAKI, Mitsuhiro TESHIBA, Hiroyuki HASHIGUCHI, Yasuko UMEMOTO, Hisaki EITO, Masanori YOSHIZAKI

0900-278 MC06/02A/D-005 Poster
OBSERVATIONAL STUDY ON DOWNSLOPE WIND IN THE LEE OF THE ROKKO MOUNTAINS, JAPAN
Yasutomo KIYOHARA, Manabu D. YAMANAKA, Shin-ya OGINO

0900-279 MC06/02A/D-006 Poster
NUMERICAL SIMULATION OF MESOSCALE CIRCULATIONS ASSOCIATED WITH THE DUST STORM IN THE TARIM BASIN
Naoko SEINO, Akira YAMAMOTO, Masaru CHIBA

0900-280 MC06/02A/D-007 Poster
FOG OBSERVATION USING MILLIMETER-WAVE RADAR AND OTHER INSTRUMENTS
Akira YAMAMOTO, Kenji AKAEDA, Osamu SUZUKI, Hiroshi ISHIMOTO, Masahisa NAKAZATO

MC14-Posters Wednesday, July 2 AM

DETECTING AND ATTRIBUTING THE EARLY SIGNS OF HUMAN INFLUENCES ON THE CLIMATE (ICCI)

Location: Site D

- 0830-281 MC14/02A/D-001 Poster**
CLIMATE VARIABILITY AND CHANGE IN BULGARIA DURING THE 20TH CENTURY
Vesselin A. ALEXANDROV, Michel SCHNEIDER, Ekaterina KOLEVA, Jean-Marc MOISSELIN
- 0830-282 MC14/02A/D-002 Poster**
CYCLIC CLIMATE CHANGES: WARMING OR COOLING IS COMING NEXT?
Alexey A. LYUBSUHIN, Leonid B. KLYASHTORIN
- 0830-283 MC14/02A/D-003 Poster**
SIMULATING 20TH CENTURY SURFACE TEMPERATURE CHANGE IN CHINA
Panmao ZHAI, David SEXTON, Simon TETT
- 0830-284 MC14/02A/D-004 Poster**
DETECTION AND ATTRIBUTION OF CLIMATE VARIATIONS ON THE INCIDENCE OF VECTOR-BORNE DISEASES
Daithi A. STONE, Myles R. ALLEN, Simon I. HAY, Monica FAETH-MYERS, David J. ROGERS
- 0830-285 MC14/02A/D-005 Poster**
IMPACT OF URBANIZATION AND LAND USE ON CLIMATE CHANGE
Ming CAI, eugenia KALNAY



P01 Wednesday, July 2 AM

WESTERN BOUNDARY CURRENTS

Location: Site B, Room 18

- Convener: S. Imawaki
Co-Conveners: N. Bindoff, D. Olson, A. Piola, J. Lutjeharms
Presiding Chairs: D.K. Olson, S. Imawaki
- 0830 P01/02A/B18-001 Invited**
OBSERVATIONS OF WESTERN BOUNDARY CURRENTS DURING WOCE
Harry L. BRYDEN
- 0900 P01/02A/B18-002 Invited**
FROM GULF STREAM TO KUROSHIO EXTENSION: DYNAMICAL PROCESS STUDIES
D. Randolph WATTS
- 0930 P01/02A/B18-003**
HIGH REYNOLDS NUMBER MODELLING OF WESTERN BOUNDARY CURRENTS USING FULLY-ADAPTIVE FINITE ELEMENTS
David P. MARSHALL, Christopher C. PAIN, Matthew PIGGOTT, Antony J. H. GODDARD, Cassiano R. E. DE OLIVEIRA, Adrian P. UMPLEBY
- 0950 P01/02A/B18-004**
HOW POTENTIAL VORTICITY CONSTRAINTS CAN FORCE SEPARATION OF WESTERN BOUNDARY CURRENTS
Andrew E. KISS
- 1010 P01/02A/B18-005**
SOURCES AND FATE OF EQUATORIAL UNDERCURRENTS
Wilco HAZELEGER, Pedro DE VRIES, Paul GOODMAN, Mark CANE
- 1050 P01/02A/B18-006 Invited**
MECHANISMS OF INTERANNUAL-DECADAL VARIABILITY IN THE WESTERN BOUNDARY CURRENT TRANSPORTS OF THE NORTH ATLANTIC OCEAN: A MODEL STUDY
Claus BOENING, FLAME GROUP
- 1120 P01/02A/B18-007 Invited**
THE YUCATAN CURRENT
Julio SHEINBAUM, Julio CANDELA, Jose OCHOA, Antonio BADAN
- 1150 P01/02A/B18-008**
AN ANALYSIS OF A REGIONAL MODEL OF THE SUB-POLAR NORTH ATLANTIC
Paul Glen MYERS, Daniel DEACU

P02 Wednesday, July 2 AM

MARGINAL AND SEMI-ENCLOSED SEAS AND THEIR EXCHANGE WITH THE OPEN OCEAN

Location: Site C, Room 25

Presiding Chair: C. Mooers

- 0830 P02/02A/C25-001**
SHELF-SLOPE EXCHANGES IN THE PORTUGAL/CANARY CURRENT UPWELLING REGION
Eric Desmond BARTON
- 0900 P02/02A/C25-002**
LAGRANGIAN DIAGNOSTICS IN THE MEDITERRANEAN SEA APPLIED TO EULERIAN GCM: A QUANTITATIVE STUDY OF CHARACTERISTIC TIMES OF INTER BASIN WATER MASSES EXCHANGES IN THE CLIMATOLOGIC CASE AND DURING THE EASTERN MEDITERRANEAN TRANSIENT
Volfango RUPOLO, Daniele IUDICONE, Salvatore MARULLO, Gianmaria SANNINO
- 0920 P02/02A/C25-003**
FLUX FORCED SIMULATIONS OF THE CIRCULATION OF THE MEDITERRANEAN
Paul Glen MYERS, Simon A. JOSEY
- 0940 P02/02A/C25-004**
SHELF-OPEN SEA EXCHANGE PROCESSES IN THE SOUTHEASTERN MEDITERRANEAN SEA
Steve BRENNER, Zvi ROSENTRUB
- 1000 P02/02A/C25-005**
INFLUENCE OF THE NAO ON THE CIRCULATION OF THE MEDITERRANEAN SEA
Mario ASTRALDI, Gian Pietro GASPARINI

1020 BREAK

- 1040 P02/02A/C25-006**
LAGRANGIAN OBSERVATIONS OF THE SURFACE CIRCULATION OF THE NORTHERN AEGEAN SEA
Donald K. OLSON, Vassiliki H. KOURAFALOU, William E. JOHNS
- 1100 P02/02A/C25-007**
MODELLING THE BAROCLINIC CIRCULATION IN THE AREA OF THE SICILY CHANNEL: THE ROLE OF STRATIFICATION AND ENERGY DIAGNOSTICS
Ernesto NAPOLITANO, Ernesto NAPOLITANO, Gianmaria SANNINO, Vincenzo ARTALE
- 1120 P02/02A/C25-008**
DENSE WATER GENERATION IN THE NORTH ADRIATIC SEA: THE SPREADING TOWARDS THE MIDDLE AND SOUTH ADRIATIC
Ivica VILIBIC, Branka GRBEC, Nastjenjka SUPIC
- 1140 P02/02A/C25-009**
THE IMPORTANCE OF PHYSICAL CONDITIONS ON THE AUTUMN 2002 HYPOXIA DEVELOPMENT IN THE NORTHERN ADRIATIC SEA: PRELIMINARY RESULTS FROM OBSERVATIONS AND FORECASTING MODEL
Aniello RUSSO, Reiner ONKEN, Tiziana PACCAGNELLA, Alessandra CAMPANELLI, Antonio ARTEGANI



SS01 Wednesday, July 2 AM

SEISMOLOGICAL OBSERVATION AND INTERPRETATION

Location: Site A, Room 9

Presiding Chairs: J.W. Dewey, Y. Capdeville

- 0830 SS01/02A/A09-001**
EARTHQUAKE MAGNITUDE: WHAT DOES IT MEAN? HOW TO DETERMINE IT BEST?
Peter BORMANN
- 0845 SS01/02A/A09-002**
PROPOSED STANDARDS FOR MAKING MEASUREMENTS FROM DIGITAL DATA TO BE USED IN CALCULATING EARTHQUAKE MAGNITUDES
James W. DEWEY
- 0900 SS01/02A/A09-003**
ONE SLOPE OR TWO? THE RELATION BETWEEN MS AND LOGM0
Mehdi REZAPOUR
- 0915 SS01/02A/A09-004**
SEISMIC MOMENT MAGNITUDE AND ENERGY DETERMINATION USING CODA ENVELOPES
Fumiko TAJIMA, Kevin MAYEDA, Douglas S. DREGER
- 0930 SS01/02A/A09-005**
MAGNITUDE SCALES FOR VERYLOCAL EARTHQUAKES. APPLICATION FOR DECEPTION ISLAND VOLCANO, ANTARCTICA
Jens HAVSKOV, Jose PENA, Jesus IBANEZ, Lars OTTEMOELLER, Carmen MARTINEZ-AREVALO
- 0945 SS01/02A/A09-006**
MAGNITUDE CALIBRATION OF IMS STATIONS
Johannes SCHWEITZER

WEEK
A
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1000 SS01/02A/A09-007

WHO BEATS THE EARTH?

Naoki KOBAYASHI, Kiwamu NISHIDA

1015 BREAK**1045 SS01/02A/A09-008**

LEANE: A NEW GLOBAL SEISMIC WAVEFORM TOMOGRAPHY METHOD BASED ON THE SPECTRAL ELEMENT METHOD

Yann CAPDEVILLE, Barbara ROMANOWICZ, Yuan-Cheng GUNG

1100 SS01/02A/A09-009

CONSTRUCTING SUBSURFACE STRUCTURES OF THE NORTHERN PORTION OF THE CHELUNGPU FAULT, TAIWAN TO INVESTIGATE POSSIBLE MECHANISMS OF ABNORMALLY LARGE FAULT RUPTURES

Chien-Li LEE, Hsiang-Chun LEE, Chien-Ying WANG

1115 SS01/02A/A09-010

3D LINEAR SEISMIC TOMOGRAPHY WITHOUT RAY TRACING

Artyom V. KABANNIK, Vladimir A. TCHEVERDA

1130 SS01/02A/A09-011

TOMOGRAPHY BY MONTE CARLO SAMPLING - WESTERN TOTTORI CASE

Wojciech DEBSKI, Anshu JIN, Masataka ANDO

1145 SS01/02A/A09-012

MAPPING CRUSTAL S-WAVE VELOCITY STRUCTURE WITH SV-COMPONENT RECEIVER FUNCTION METHOD

Xiaofei CHEN, Zuihong ZOU

1200 SS01/02A/A09-013

VELOCITY STRUCTURE IN THE AREA OF KARYMSKY VOLCANIC CENTRE IN KAMCHATKA

Lidiy Borisovna SLAVINA, Natalia Borisovna PIVOVAROVA

1215 SS01/02A/A09-014

THREE-DIMENSIONAL UPPER-CRUST TOMOGRAPHIC STRUCTURE IN THE ERZINCAN BASIN, EASTERN TURKEY

Bulent KAYPAK, Haluk EYIDOĞAN

SS02 Wednesday, July 2 AM**SEISMIC SOURCES: MODELING AND PREDICTION**

Location: Site A, Room 3

Program Group: M. Ohnaka, K. Satake, R.H. Sibson, S.N. Ward, X.-C. Yin

Presiding Chairs: S. Das, T. Sagiya

0845 SS02/02A/A03-001

THE MW 8.2, FEBRUARY 17, 1996 BIAK, INDONESIA EARTHQUAKE: RUPTURE HISTORY, AFTERSHOCKS AND FAULT PLANE PROPERTIES

Shamita-DAS, Christopher HENRY

0900 SS02/02A/A03-002

SOURCE KINEMATICS AND DYNAMICS OF THE 3 NOVEMBER, 2002 MW7.9 DENALI FAULT, ALASKA EARTHQUAKE

Douglas DREGER, David OGLESBY, Ruth HARRIS, Natalia RATCHKOVSKI, Roger HANSEN

0915 SS02/02A/A03-003

DYNAMIC PARAMETERS OF THE 1999 CHI-CHI, TAIWAN, EARTHQUAKE

Kuo-Fong MA, D.J. ANDREWS, T. MIKUMO

0930 SS02/02A/A03-004

CHARACTERISTICS OF ASPERITIES IN SUBDUCTION ZONES

Masayuki KIKUCHI

0945 SS02/02A/A03-005

COSEISMIC SLIP, POSTSEISMIC SLIP, AND LARGEST AFTERSHOCK ASSOCIATED WITH THE 1994 SANRIKU-HARUKA-OKI EARTHQUAKE

Yuji YAGI, Masayuki KIKUCHI, Takuya NISHIMURA

1000 SS02/02A/A03-006

THE RUPTURE PROCESSES OF THE 1944 TONANKAI AND 1946 NANKAIDO EARTHQUAKES FROM TELESEISMIC AND REGIONAL WAVEFORMS

Hong Kie THIO, Gene ICHINOSE, Toshiaki SATO, Toru ISHII

1015 SS02/02A/A03-007

CHARACTERISTICS OF DESTRUCTIVE EARTHQUAKES IN ZAGROS STAURE ZONE

Zahra HOSSEINI

1030 BREAK**1045 SS02/02A/A03-008**

AN EARTHQUAKE SEQUENCE IN KERALA (PENINSULAR INDIA) DURING DECEMBER 2000 AND JANUARY 2001

S.N. BHATTACHARYA, R.S. DATTATRAYAM

1100 SS02/02A/A03-009

STRESS DROPS AND APPARENT STRESSES OF TWENTY AFTERSHOCKS OF THE MS7.6 1999 CHI-CHI, TAIWAN, EARTHQUAKE

Jeen-Hwa WANG, Ming-Wey HUANG

1115 SS02/02A/A03-010

COMPREHENSIVE DEFORMATION MODEL AROUND THE CENTRAL ITOIGAWA-SHIZUOKA TECTONIC LINE, CENTRAL JAPAN

Takeshi SAGIYA, Takuya NISHIMURA, Yoshihisa IIO

1130 SS02/02A/A03-011

STRAIN RATE FIELD IN MAINLAND OF CHINA FROM GPS DATA AND RELATED SEISMICITY

Shoubiao ZHU, Yaolin SHI

1145 SS02/02A/A03-012

RUPTURE PROCESS OF THE 2001 GEIYO EARTHQUAKE: ANALYSIS OF A SLAB EARTHQUAKE USING HIGH-DENSITY STRONG MOTION OBSERVATION NETWORK

Yasumaro KAKEHI

1200 SS02/02A/A03-013

EKOFISK SEISMIC EVENT OF MAY 7, 2001

Lars OTTEMOLLER, Hardy Hartmann NIELSEN, Kuvvet ATAKAN, Jochen BRAUNMILLER, Jens HAVSKOV

1215 SS02/02A/A03-014

THE FOCAL MECHANISMS OF LOW MAGNITUDE VRANCEA (ROMANIA) CRUSTAL EARTHQUAKES BY SHORT PERIOD WAVEFORM MODELING

Luminita Angela ARDELEANU, Mircea RADULIAN, Jan SILENY, Giuliano

Francesco PANZA



IAVCEI

V07-Posters Wednesday, July 2 AM**SUBAQUEOUS VOLCANISM, VOLCANOGENIC SEDIMENTATION AND HYDROTHERMAL SYSTEMS**

Location: Site D

Convener: J.C. Varekamp

Co-Conveners: W. Mueller, K. Kano

Presiding Chair: K. Kano

0830-286 V07/02A/D-001**Poster**

MORPHOLOGY AND GROWTH STYLE OF A MIOCENE DEEP SEA LAVA DOME, JAPAN

Yoshihiko GOTO, Nobutaka TUCHIYA

0830-287 V07/02A/D-002**Poster**

THE EFFECT OF SEAWATER ON RHYOLITIC DOME GROWTH IN A SHALLOW SEA DURING SHOWA IWO-JIMA ERUPTION IN 1934-35

Fukashi MAENO, Hiromitsu TANIGUCHI

0830-288 V07/02A/D-003**Poster**

LATE MIOCENE SUBMARINE VOLCANOES IN THE BACK-ARC BASIN OF NE HONSHU, JAPAN - THE CASE OF FUKUYAMA ANDESITE KNOLL-

Masahiko YAGI, Takeshi OHGUCHI, Takeyoshi YOSHIDA, Fumio AKIBA

0830-289 V07/02A/D-004**Poster**

CATASTROPHIC FLOODING AND LAHARS: LANDSCAPE RESPONSES TO THE TAUPU 1800A ERUPTION, NEW ZEALAND

Vern MANVILLE

0830-290 V07/02A/D-005**Poster**

GEOCHEMICAL SURVEY AT RABAU CALDERA, PAPUA NEW GUINEA

Takeshi OHBA, Kila MULINA, Kenji NOGAMI, Yuichi NISHIMURA

0830-291 V07/02A/D-006**Poster**

UNDERWATER EXPLOSION EXPERIMENTS FOR THE UNDERSTANDING OF SUBMARINE EXPLOSIVE ERUPTION

Akihiko YOKOO, Mie ICHIHARA, Akio GOTO, Hiromitsu OSHIMA, Hiroshi

AOYAMA, Tokumitsu MAEKAWA, Hiromitsu TANIGUCHI

0830-292 V07/02A/D-007**Poster**

THE 2000 PHREATOMAGMATIC AND PHREATIC ERUPTIONS AT USU VOLCANO, JAPAN

Shinji TAKARADA, Hideo HOSHIZUMI, Isoji MIYAGI, Yuichi NISHIMURA,

Yasuo MIYABUCHI, Daisuke MIURA, Yoshihisa KAWANABE

0830-293 V07/02A/D-008**Poster**

EXPLOSIVE FRAGMENTATION OF BASALTIC MAGMA FOCUSED ON A VARIETY IN SPATTER SIZES AND PARTICLE SIZE DISTRIBUTIONS FROM A SUBMARINE VOLCANICLASTIC SEQUENCE

Norie FUJIBAYASHI, Rie KONTA

0830-294 V07/02A/D-009**Poster**

A DISTAL RECORD OF LARGE HAWAIIAN GIANT SUBMARINE LANDSLIDES: THE STRATIGRAPHY OBTAINED FROM THE DEEP-SEA FLOOR ADJACENT TO THE HAWAIIAN ISLANDS

Toshiya KANAMATSU, Jiro NAKA

0830-295 V07/02A/D-010 Poster
VOLCANIC RECORD IN SEDIMENTARY MATERIALS COLLECTED FROM SOUTH OF HAWAII ISLAND
Jiro NAKA, Toshiya KANAMATSU, Peter W. LIPMAN, Thomas W. SISSON

V08 Wednesday, July 2 AM
CALDERA FORMATION AND UNREST
Location: Site A, Room 2

Convener: T. Druitt
Co-Conveners: P. Lipman, T. Ui
Presiding Chairs: T.H. Druitt, P. Lipman, T. Ui

0900 V08/02A/A02-001
AN ANALYSIS OF HISTORIC CALDERA-FORMING ERUPTIONS
John STIX

0920 V08/02A/A02-002
RECENT CRUSTAL ACTIVITY AND PHREATIC ERUPTIONS AT IWO-JIMA, UNREST CALDERA VOLCANO
Motoo UKAWA, Eisuke FUJITA, Teiji KUMAGAI, Hiroshi OHKURA, Tetsuo KOBAYASHI

0940 V08/02A/A02-003
COMPARATIVE SEISMICITY, DEFORMATION, AND MAGMA SUPPLY AT IWO-JIMA, LONG VALLEY, AND YELLOWSTONE CALDERAS
Christopher G. NEWHALL, Eisuke FUJITA, David HILL, Tetsuo KOBAYASHI, Jake LOWENSTERN, Motoo UKAWA

1000 V08/02A/A02-004
MODELLING CALDERA UNREST: GEOCHEMICAL VARIATIONS AND GROUND DEFORMATION AT PHLEGREAN FIELDS CALDERA (ITALY)
Micol TODESCO, Giovanni CHIODINI, Jonny RUTQVIST, Karsten PRUESS, Curtis M. OLDENBURG

1020 V08/02A/A02-005
THE 1996-2003 ERUPTIONS IN THE AKADEMII NAUK CALDERA AND AT THE KARYMSKY VOLCANO, KAMCHATKA
Sergei A. FEDOTOV, Alexei Yu. OZEROV, Mefodii A. MAGUSKIN, Viktor N. DVIGALO, Elena N. GRIB, Viktor V. IVANOV

1040 BREAK
1100 V08/02A/A02-006
SUBSIDENCE CESSATION DURING THE INITIAL STAGE OF FUNNEL CALDERA FORMATION AT HUAYNAPUTINA, SOUTHERN PERU
Yan LAVALLÉE, Shanaka L. DE SILVA, Guido SALAS, Jeffrey M. BYRNES, Eddy G.A. VIZCARRA

1120 V08/02A/A02-007
ALTERATION, DISTRIBUTION, AND CORRELATION OF ASH LAYERS IN THE PACIFIC SEAFLOOR OFF NICARAGUA WITH ON-LAND TEPHRAS - IMPLICATIONS FOR VOLATILE RELEASE AND ERUPTION PARAMETERS
Steffen KUTTEROLF, Heidi WEHRMANN, Ulrike SCHACHT, Armin FREUNDT, Schmidt MARK, Hans-Ulrich SCHMINCKE

1140 V08/02A/A02-008
MECHANISM OF THE CALDERA COLLAPSE DURING THE MIYAKEJIMA 2000 ERUPTION
Nobuo GESHI

1200 V08/02A/A02-009
ERUPTIVE HISTORY OF LATE MIOCENE TO PLEISTOCENE CALDERA VOLCANOES IN THE AIZU VOLCANIC FIELD, NORTHEAST JAPAN: AN EXAMPLE OF THE LONG-TERM RECURRENCE CYCLE OF CALDERA-FORMING ERUPTIONS IN A COMPRESSION ARC.
Takahiro YAMAMOTO

1220 V08/02A/A02-010
ERUPTIVE HISTORY DURING THE LAST 10 KY FOR THE CALDERA FORMATION OF RINJANI VOLCANO, INDONESIA
Asnawir NASUTION, Akira TAKADA, Rosgandika MULYANA

V10 Wednesday, July 2 AM
VOLCANO STRUCTURE AND SCIENTIFIC DRILLING
Location: Site A, Room 1

Presiding Chairs: J. Eichelberger, S. Tait

0830 V10/02A/A01-001
MULTIPLE MIXING PROCESSES IN THE FORMATION OF THE UNZEN VOLCANIC ROCKS
Hoang NGUYEN, K. UTO, H. HOSHIZUMI, K. OGURI

0850 V10/02A/A01-002
RECORD OF REPEATED RECHARGE OF THE UNZEN MAGMA CHAMBER FROM USDP PHASE I CORES
Brandon L. BROWNE, Lina C. PATINO, Thomas A. VOGEL, Kuzo UTO, Hideo HOSHIZUMI, Setsuya NAKADA, John C. EICHELBERGER

0910 V10/02A/A01-003 Invited
MAGMA'S DEGASSING AND CONDUIT DRILLING AT UNZEN VOLCANO
Setsuya NAKADA, Sumio SAKUMA, Kozo UTO

0940 V10/02A/A01-004 Invited
INYO SCIENTIFIC DRILLING PROGRAM: RETROSPECTIVE
John C. EICHELBERGER, Thomas A. VOGEL

1010 BREAK

1030 V10/02A/A01-005
GROUNDMASS TEXTURES AS RECORDS OF MAGMATIC ASCENT AND DEGASSING: A CASE STUDY FROM THE INYO VOLCANIC CHAIN, CA
Jonathan Michael CASTRO

1050 V10/02A/A01-006 Invited
GEOPHYSICAL INVESTIGATION OF CONDUIT AND STORAGE REGION PROCESSES: THE CALIPSO BOREHOLE OBSERVATORY PROJECT AT SOUFRIERE HILLS VOLCANO, MONTERRAT, LESSER ANTILLES
Simon R. YOUNG, Barry VOIGHT, Glen S. MATTIOLI, I. Selwyn SACKS, Alan T. LINDE, Eylon SHALEV, Peter E. MALIN, Derek ELSWORTH

1120 V10/02A/A01-007
ZONATION OF THE HAWAIIAN PLUME: EVIDENCE FROM HANA RIDGE, SUBMARINE HALEAKALA, HAWAII
Kevin T.M. JOHNSON, Zhong-Yuan REN, Eiichi TAKAHASHI, Tomoyuki SHIBATA, Qing CHANG

1150 V10/02A/A01-008
NEW EXTENT OF THE PERNICANA FAULT SYSTEM:IMPLICATIONS FOR FLANK COLLAPSE AT ETNA (ITALY)
Valerio ACOCELLA, Marco NERI, Boris BEHNCKE

Wednesday, July 2 PM

IA INTER-ASSOCIATION

JSA02 Wednesday, July 2 PM

EXTERNAL FORCING ON THE MIDDLE ATMOSPHERE AND IONOSPHERE (IAGA, IAMAS)
Location: Site A, Room 10
Presiding Chairs: R. Vincent, E. Kazimirovsky

1400 JSA02/02P/A10-001
GRAVITY WAVE FORCING AND IMPOSED VARIABILITY IN THE MLT REGION
David C. FRITTS

1425 JSA02/02P/A10-002
SIMULATION OF TIDES AND OTHER HIGH FREQUENCY OSCILLATIONS IN THE MESOSPHERE AND LOWER THERMOSPHERE
Rolando R. GARCIA

1450 JSA02/02P/A10-003
THE EFFECTS OF TROPOSPHERIC TIDALFORCING ON THE UPPER ATMOSPHERE AND IONOSPHERE
Maura E. HAGAN, Arthur D. RICHMOND, Astrid I. MAUTE, Raymond G. ROBLE, Jens OBERHEIDE, Jeffrey M. FORBES

1515 JSA02/02P/A10-004
MODELLING THE SOLAR CYCLE EFFECTS ON GRAVITY WAVE MOMENTUM DEPOSITION IN THE MESOSPHERE & LOWER THERMOSPHERE
Scott Leslie ENGLAND, Neil ARNOLD

1530 BREAK

1600 JSA02/02P/A10-005
INTERNAL GRAVITY WAVES IN THE ISOTHERMAL ATMOSPHERE WITH A VARIABLE WIND
Gennadiy I. GRIGOREV, Olga N. SAVINA

1615 JSA02/02P/A10-006
DIURNAL TIDES IN THE MESOSPHERE AND THERMOSPHERE SIMULATED BY A GENERAL CIRCULATION MODEL
Yasunobu MIYOSHI, Hitoshi FUJIWARA

1630 JSA02/02P/A10-007
RELATION OF THE STRATOSPHERE TO THE IONOSPHERE F2 REGION
Alexei D. DANILOV, L.B. VANINA

1655 JSA02/02P/A10-008
IONOSPHERIC F2-LAYER DISTURBANCES NOT RELATED TO GEOMAGNETIC STORMS
Andrei V. MIKHAILOV

**WEEK
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1720 JSA02/02P/A10-009
 TIME AND SCALE SIZE OF PLANETARY WAVE TYPE OSCILLATIONS IN THE IONOSPHERIC F REGION
 David ALTADILL, Emil Marcel APOSTOLOV

1745 JSA02/02P/A10-010
 THE PLANETARY WAVE TYPE OSCILLATIONS IN THE MESOPAUSE AND IN THE IONOSPHERE
 Jiangang XIONG, Weixin WAN, Baiqi NING, Libo LIU

JSA06-Posters Wednesday, July 2 PM

SEISMO-, VOLCANO- AND TECTONO-ELECTROMAGNETIC EFFECTS (IAGA, IASPEI, IAVCEI)
 Location: Site D

Convener: M. Johnston
 Co-Conveners: Y. Sasai, J. Zlotnicki
 Presiding Chairs: M. Johnston, Y. Sasai

1400-001 JSA06/02P/D-001 Poster
 TECTONOMAGNETIC INVESTIGATIONS OF ACTIVE FAULTS
 Zhijia ZHAN, Malcolm JOHNSTON, Robert MUELLER, D.G. MYREN, Jintian GAO, Congli ZHAO, Wenzhi SHEN

1400-002 JSA06/02P/D-002 Poster
 ESSENTIAL STRUCTURE FINITE ELEMENT (ESFE) ALGORITHM AND ITS APPLICATION TO MT1D FORWARD MODELING WITH CONTINUOUS CHANGE OF CONDUCTIVITY
 Xiao-Bin CHEN, Guo-Ze ZHAO

1400-003 JSA06/02P/D-003 Poster
 EARTHQUAKE-RELATED GEOELECTRIC POTENTIAL CHANGES OBSERVED IN THE SUMATRAN FAULT ZONE WITH SPECIAL ATTENTION TO THE 2000-2001 EARTHQUAKES
 Djedi S. WIDARTO, Toru MOGI, Edy M. ARSADI, Yoshikazu TANAKA, Toshiyasu NAGAO, Seiya UYEDA

1400-004 JSA06/02P/D-004 Poster
 ENHANCEMENT OF PIEZOMAGNETIC SIGNALS ABOVE A BOREHOLE: THE MOGI SOURCE AS AN EXAMPLE
 Yoichi SASAI, Malcolm J.S. JOHNSTON, Yoshikazu TANAKA, Robert MUELLER, Takeshi HASHIMOTO, Shin'ya SAKANAKA, Mitsuru UTSUGI

1400-005 JSA06/02P/D-005 Poster
 GEOMAGNETIC CHANGES OBSERVED IN ASSOCIATION WITH EARTHQUAKE SWARM ACTIVITY IN THE IZU PENINSULA IN 2002
 Ken-ichi YAMAZAKI, Naoto OSHIMAN, Yoshimori HONKURA, Makoto UESHIMA, Shigeru KOYAMA, Yoshinobu ISHIKAWA, Yoichi SASAI

1400-006 JSA06/02P/D-006 Poster
 CONTINUOUS OBSERVATIONS OF THE GEOMAGNETIC TOTAL INTENSITY IN THE WESTERN PART OF THE NORTH ANATOLIAN FAULT ZONE, TURKEY
 Mustafa Kemal TUNCER, Cengiz CELIK, Naoto OSHIMAN, Yoshimori HONKURA, Ahmet Mete ISIKARA

1400-007 JSA06/02P/D-007 Poster
 ULF ELECTROMAGNETIC PRECURSOR SIGNALS AND THE WEAK SEISMIC ACTIVITY IN HAINAN ISLAND
 Xing FAN

1400-008 JSA06/02P/D-008 Poster
 STUDY OF ANOMALOUS GEOMAGNETIC PHENOMENA CONNECTED TO THE EARTHQUAKES IN THE CARPATHIAN REGION
 Valentyn MAKSYMCHUK, Valentyna KUZNETSOVA, Yury GORODISKY

1400-009 JSA06/02P/D-009 Poster
 INDUCTION WARMING UP OF THE EARTH INTERIOR BY GEOMAGNETIC VARIATIONS OF THE EXTERNAL ORIGIN
 Edouard B. FAINBERG, Arben A. AVAGIMOV, Vladimir A. ZEIGARNIK

1400-010 JSA06/02P/D-010 Poster
 TECTONIC-SEISMIC ASPECTS OF RADON DANGEROUS ON THE TERRITORIES OF THE CENTRAL ASIA
 Nigora MIRAHMEDOVA, Kakharbay Nasirbekovich ABDULLABEKOV, Agbar Rakhmatovich YARMUKHAMEDOV, D. ZAREDINOV, A. YAFASOV, Ab. YAFASOV

1400-011 JSA06/02P/D-011 Poster
 ON THE SITUATION IN THE NEAR-EARTH SPACE PRECEDING STRONG EARTHQUAKES
 Ludmila Nikolaevna MAKAROVA

1400-012 JSA06/02P/D-012 Poster
 THE SPATIAL-TEMPORAL VARIATIONS OF THE GRAVITY FIELD FROM THE DATA OF A GEOPHYSICAL MONITORING NETWORK IN EGYPT
 Andrei Leonidovich KHARITONOV, Gamal S. HASSAN, Serker A. SERKEROV

1400-013 JSA06/02P/D-013 Poster
 GEOMAGNETIC CHANGE RELATED TO VOLCANIC ACTIVITY IN ADATARA
 Tetsuya YAMAMOTO, Takeshi OOWADA, Nobuaki SHIGENO

1400-014 JSA06/02P/D-014 Poster
 HEIGHT RESOLUTION HELICOPTER-BORNE AEROMAGNETIC SURVEY IN ASO VOLCANO, CENTRAL KYUSHU ISLAND OF JAPAN
 Mitsuru UTSUGI, Yoshikazu TANAKA, Shinya SAKANAKA, Takeshi MATSUSHIMA, Takeshi HASHIMOTO, Naoto KITADA

1400-015 JSA06/02P/D-015 Poster
 HEAT DISCHARGING PROCESSES OF VOLCANOES AS INFERRED FROM GEOMAGNETIC MONITORING IN ASO AND KUJU
 Yoshikazu TANAKA, Takeshi HASHIMOTO, Shin'ya SAKANAKA, Mitsuru UTSUGI

1400-016 JSA06/02P/D-016 Poster
 HYDROTHERMAL SYSTEM AND FAULTING IN LONG VALLEY CALDERA INFERRED BY SELF-POTENTIAL MAPPING
 Jacques ZLOTNICKI, Yochi SASAI, Malcolm JOHNSTON, Yoshikazu TANAKA, Alban MILLE, Jean François DELARUE

1400-017 JSA06/02P/D-017 Poster
 ELECTRIC AND MAGNETIC PHENOMENA OBSERVED BEFORE THE VOLCANIC SEISMIC ACTIVITY 2000 IN THE IZU ISLAND REGION, JAPAN
 Seiya UYEDA, Masashi HAYAKAWA, Toshiyasu NAGAO, Oleg MOLCHANOV, Katsumi HATTORI, Yoshiaki ORIHARA, Kaoru GOTOH, Yoshikazu AKINAGA, Haruo TANAKA

1400-018 JSA06/02P/D-018 Poster
 CHANGE IN GEOMAGNETIC FIELD OF MIYAKEJIMA VOLCANO AFTER THE 2000 CALDERA FORMATION
 Tsuneomi KAGIYAMA, Manabu SUGIOKA, Etsuro KOYAMA, Shomei SHIRATO, Yoichi SASAI, Tsutomu OGAWA, Ikuko FUJII, Tomoaki TAKIZAWA

1400-019 JSA06/02P/D-019 Poster
 MONITORING OF SELF-POTENTIAL AND RESISTIVITY VARIATIONS IN GEOTHERMAL FIELD OF USU VOLCANO
 Mizue SABA, Yasunori NISHIDA, Tohru MOGI, Shinichi TAKAKURA, Nobuo MATSUSHIMA, Atsuo SUZUKI

1400-020 JSA06/02P/D-020 Poster
 SELF POTENTIAL SIGNALS ASSOCIATED WITH VERY LONG PERIOD SEISMICITY AND FUMAROLIC TEMPERATURE VARIATIONS AT MERAPI VOLCANO, CENTRAL JAVA.
 Svetlana BYRDINA, Sven FRIEDEL, Carsten RUECKER, Jacques ZLOTNICKI

1400-021 JSA06/02P/D-021 Poster
 GEOPHYSICAL AND CHEMICAL PRECURSORS TO DOME FORMATION AT POPOCATEPWTL VOLCANO, MEXICO,2002-2003
 Ana Lillian MARTIN, Gerardo CIFUENTES, Enrique CABRAL-CANO, Francisco CORREA, Fabiola MENDIOLA

1400-022 JSA06/02P/D-022 Poster
 GEOMAGNETIC TOTAL INTENSITY INDUCED BY SEA WATER CURRENTS (CASE STUDY AT THE MIYAKE-JIMA AREA)
 Shomei SHIRATO, Ikuko FUJII, Yuji YAMADA, Hiroshi HASEGAWA

1400-023 JSA06/02P/D-023 Poster
 NON STATIONARY TECHNIQUES OF INTERPRETATION AND CHARACTERIZATION OF VOLCANOMAGNETIC EVENTS.
 Mauro LA MANNA, Maurizio FEDI, Paulo GONÇALVES

1400-024 JSA06/02P/D-024 Poster
 THE USE OF MULTIVARIATE TIME SERIES ANALYSIS FOR PROCESSING OF OBSERVATION GEOELECTRIC DATA IN KAMCHATKA
 Galina N. KOPYLOVA, Alexey A. LYUBUSHIN

1400-025 JSA06/02P/D-025 Poster
 TIDAL COMPONENTS OF THE ELECTROTELLURIC FIELD
 Alexandr N. KROLEVETS, Galina N. KOPYLOVA

1400-026 JSA06/02P/D-026 Poster
 EM PHENOMENA RELATED TO EARTHQUAKES ANDVOLCANOES GROUND-BASED MEASUREMENTS ASSOCIATED WITH DEMETER SATELLITE MISSION: A WAY TO TRACK EM SIGNALS
 Jacques ZLOTNICKI, Michel Jean PARROT

1400-027 JSA06/02P/D-027 Poster
 CONCERNING THE LOCAL VARIATIONS OF GEOMAGNETIC FIELD NEAR THE VOLCANOES AND THE SEISMOACTIVE REGIONS
 Gulnora Dgahangirovna RASULOVA, Dgahangir Khasanovich RASULOV

1400-028 JSA06/02P/D-028 Poster
 ZETA POTENTIAL MEASUREMENTS OF VARIOUS ROCKS ON ASO VOLCANO
 Hideaki HASE, Tsuneo ISHIDO, Shin'ichi TAKAKURA, Takeshi HASHIMOTO, Keiko SATO, Yoshikazu TANAKA

1400-029 JSA06/02P/D-029 Poster
 STUDY OF DIELECTRIC DISPERSION OF IONIC CONDUCTORS AS A POSSIBLE OBSERVABLES OF ACROSS
 Hiroshi MATSUMOTO, Naotaka SHIGETA, Mineo KUMAZAWA, Takahiro NAKAJIMA

1400-030 JSA06/02P/D-030 Poster
SOFTWARE FOR CALCULATION OF TECTONOMAGNETIC ANOMALIES INDUCED BY PIEZOMAGNETIC EFFECT
Oleg A. SOBOLEV, Pyotr G. DJADKOV

1400-031 JSA06/02P/D-031 Poster
EFFECTS OF GEOMAGNETIC FIELD VARIATION ON THE OBSERVATIONAL DATA OF ISHII-TYPE 3-COMPONENT STRAINMETERS IN THE TOKAI REGION
Issei SUGANUMA, Takashi KOIDE, Akio YOSHIDA, Kazuki MIYAOKA

1400-032 JSA06/02P/D-032 Poster
GEOMAGNETIC RESEARCH OF STRONG EARTHQUAKE PREDICTION
Sabitjan Kh MAKUDOV, Kharbay Nasirbekovich ABDULLABEKOV

1400-033 JSA06/02P/D-033 Poster
PRESEISMIC DEGASSING AND SEISMO-ELECTROKINETIC EFFECTS
Dmitry Igorevich IUDIN

1400-034 JSA06/02P/D-034 Poster
THE TIME VARIATIONS OF THE APPARENT RESISTANCE PARAMETER
Karine Artashes KARAPETYAN, Avetik CHILINGARYAN, Samvel AVETISYAN

JSA11 Wednesday, July 2 PM

TWENTY YEARS OF THE OCEAN DRILLING PROGRAM (IAGA, IAMAS, IAPSO, IASPEI, IAVCEI)
Location: Site A, Room 4

Presiding Chairs: K. Becker, N. Pisias

1400 JSA11/02P/A04-001
WHY IS THE SUBDUCTION ZONE DRILLING A KEY TO UNDERSTANDING OUR PLANET?
Gaku KIMURA, Harold TOBIN

1425 JSA11/02P/A04-002
PARADIGM ALTERING DRILLING DISCOVERIES--THE EXAMPLE OF THE UNANTICIPATED DOCUMENTING OF UPPER PLATE CRUSTAL THINNING AT SUBDUCTION ZONES
David William SCHOLL, Roland VON HUENE

1450 JSA11/02P/A04-003
FLUID COMPOSITION, ORIGIN, FLUXES, AND ROLE IN SUBDUCTION ZONE AND IMPLICATIONS FOR THE WORLD OCEAN
Miriam KASTNER

1515 JSA11/02P/A04-004
STRUCTURE, PHYSICAL PROPERTIES, AND GEOPHYSICAL SENSING OF CONVERGENT MARGIN DECOLLEMENT ZONES: THE PAST DECADE OF OCEAN DRILLING AND THE IODP FUTURE
Harold J. TOBIN, Gaku KIMURA

1540 BREAK

1600 JSA11/02P/A04-005
A NEW SCIENTIFIC CHALLENGE THROUGH THE -CHIKYU-
Shin'ichi KURAMOTO, Asahiko TAIRA, Kimiaki KUDO, Yoshihisa KAWAMURA, Shomei KOBAYASHI, Tadashi OKANO, Uko SUZUKI, Tadao MATSUZAKI

1625 JSA11/02P/A04-006
IODP AND D/V CHIKYU
Asahiko TAIRA

JSA11-Posters Wednesday, July 2 PM

TWENTY YEARS OF THE OCEAN DRILLING PROGRAM (IAGA, IAMAS, IAPSO, IASPEI, IAVCEI)
Location: Site D

Presiding Chairs: K. Becker, N. Pisias

1400-121 JSA11/02P/D-001 Poster
DISCOVERIES OF CONVERGENT MARGIN PROCESSES FROM DRILLING OF THE MIDDLE AMERICA CONVERGENT MARGIN
Roland VON HUENE

1400-122 JSA11/02P/D-002 Poster
A COMPARATIVE STUDY ON EXHUMED SEISMOGENIC FAULTS AND MODERN NANKAI SEISMOGENIC MEGATHRUST, AND TARGETS OF THE IODP NANKAI TROUGH SEISMOGENIC ZONE DRILLING
Gaku KIMURA, Eisei IKESAWA, Kohtaro UJIE, Masayuki MATSUMURA, Arito SAKAGUCHI, Aitaro KATO, Jin-Oh PARK, Yoshiyuki KANEDA, Yujin KITAMURA, Yoshitaka HASHIMOTO

1400-123 JSA11/02P/D-003 Poster
LWD SONIC PROCESSING FOR DATA FROM ODP LEG-196: SHALLOW OCEAN SEDIMENTS AT NANKAI TROUGH
Hitoshi MIKADA, J.Casey MOORE, Masanori IENAGA, Saneatsu SAITO, Shinji YONESHIMA, Takeshi ENDO, Vivian PISTRE, Jim THOMPSON, Pierre CAMPANAC, Leg-196 Scientific Party

1400-124 JSA11/02P/D-004 Poster
FIRST RESULTS FROM THE NANKAI TROUGH ADVANCED CORK SUBSEAFLOOR HYDROGEOLOGICAL OBSERVATORIES
Keir BECKER, Earl E. DAVIS, Masataka KINOSHITA, Hitoshi MIKADA

1400-125 JSA11/02P/D-005 Poster
BOREHOLE GEOPHYSICAL OBSERVATORIES IN THE WESTERN PACIFIC
Masanao SHINOHARA, Kiyoshi SUYEHIRO, Toshihiko KANAZAWA, Eiichiro ARAKI

1400-126 JSA11/02P/D-006 Poster
THIRD PARTY BOREHOLE SEISMIC EXPERIMENTS DURING THE OCEAN DRILLING PROGRAM
Ralph A. STEPHEN

1400-127 JSA11/02P/D-007 Poster
SEDIMENTATION RATE CURVES AS A KEY TO UNDERSTAND THE EVOLUTION OF OCEANIC ARC AND BACKARC BASIN -ARC AND BASIN TYPES SEDIMENTATION CURVES DEDUCED FROM DSDP/IPOD/ODP CORES-
Kantaro FUJIOKA, Hiromi MATSUOKA

1400-128 JSA11/02P/D-008 Poster
ON THE MAGNETOSTRATIGRAPHY OF ODP CARBONATE LEGS 182, 189 AND 194 AROUND SOUTHERN AND EASTERN AUSTRALIA
Mike D. FULLER

1400-129 JSA11/02P/D-009 Poster
CORAL-REEF FRONT MIGRATION IN THE RYUKYU ARC: RESPONSE OF HIGH LATITUDE CORAL REEFS TO QUATERNARY CLIMATIC CHANGES IN NORTH WESTERN PACIFIC --TOWARDS A UNDERSTANDING OF CORAL REEF ECOSYSTEM INITIATION, DEVELOPMENT, AND DEMISE--
Hiroki MATSUDA, Yasufumi IRYU, Hideaki MACHIYAMA

1400-130 JSA11/02P/D-010 Poster
SHALLOW-MARINE PHREATOMAGMATIC ERUPTIONS THROUGH A SEMI-SOLIDIFIED CARBONATE PLATFORM (ODP LEG 144, SITE 878, EARLY CRETACEOUS, MIT GUYOT, WEST PACIFIC)
Ulrike MARTIN, Christoph BREITKREUZ, Paul ENOS, Luba JANSA

1400-131 JSA11/02P/D-011 Poster
TECTONIC EVOLUTION OF A TRANSFORM CONTINENTAL MARGIN: MAGNETIC FABRIC ANALYSIS OF SEDIMENTS DRILLED IN THE COTE D'IVOIRE-GHANA TRANSFORM MARGIN, ODP LEG 159
Sumito MORITA, Asahiko TAIRA

1400-132 JSA11/02P/D-012 Poster
DOWNHOLE LOGS AND WAVELET ANALYSIS: EXAMPLES OF APPLICATION FROM ODP LEGS 195 AND 199
Philippe J. GAILLOT, Brice R. REA, Samantha R. BARR

1400-133 JSA11/02P/D-013 Poster
SOFTWARE FOR INTEGRATION OF GEOSCIENCES DATA SETS: ODP-PLOT AND MAP-PLOT SOFTWARE
Philippe J. GAILLOT

1400-134 JSA11/02P/D-014 Poster
THE PALEOCENE-EOCENE CARBON ISOTOPE EXCURSION AND ASSOCIATED FORAMINIFERAL EXCURSION FAUNA
Flavia NUNES, Richard D. NORRIS

JSM06 Wednesday, July 2 PM

LAYERED PHENOMENA NEAR THE MESOPAUSE (IAMAS [ICMA], IAGA)
Location: Site B, Room 22

Presiding Chair: T. Nakamura

1400 JSM06/02P/B22-001 Invited
STRUCTURE AND DYNAMICS OF THE MESOSPHERIC NA LAYER OVER TOKYO
Makoto ABO, Chikao NAGASAWA, Yasukuni SHIBATA

1430 JSM06/02P/B22-002 Invited
THE EFFECT OF DYNAMICAL PROCESSES ON NIGHTGLOW PROFILES
William Edmund WARD, Jason Philip RUSSELL

1500 JSM06/02P/B22-003
THE SIGNATURE OF POLAR MESOSPHERIC CLOUDS IN THE AIRGLOW AND POSSIBLE PMC DETECTIONS IN THE WINTER MESOSPHERE
Svetlana V. PETELINA, Edward J. LLEWELLYN, Douglas A. DEGENSTEIN, Nicholas D. LLOYD, Adam E. BOURASSA, Richard L. GATTINGER, Wayne F.J. EVANS

1520 JSM06/02P/B22-004
PMSE, NLC, TEMPERATURES, AND METAL LAYERS AT VERY HIGH LATITUDES (78N)
Franz-Josef LUEBKEN, Josef HOEFFNER, Marius ZECHA, Juergen ROETTGER

1540 BREAK

WEEK
A
WED
PM

- 1600 JSM06/02P/B22-005**
STUDIES OF MID-LATITUDE MESOSPHERE SUMMER ECHOES AT KÜHLUNGSBORN (54N)
Marius ZECHA, Juergen BREMER
- 1620 JSM06/02P/B22-006**
MODELLING THE INFLUENCE OF AEROSOL PROPERTIES ON SMALL-SCALE PLASMAIRREGULARITIES NEAR THE SUMMER POLAR MESOPAUSE
Oystein LIE-SVENDSEN, Tom A. BLIX, Ulf P. HOPPE
- 1640 JSM06/02P/B22-007**
SOLAR AND GEOMAGNETIC INFLUENCE ON POLAR MESOSPHERE SUMMER ECHOES
Juergen BREMER, Peter HOFFMANN, Ralph LATTECK, Werner SINGER
- 1700 JSM06/02P/B22-008**
PERTURBATIONS IN SUBIONOSPHERIC VLF PROPAGATION DUE TO PMSE ELECTRON DEPLETION LAYERS
David NUNN, Mark CLILVERD, Craig RODGER
- 1720 JSM06/02P/B22-009**
POLAR MESOSPHERE WINTER ECHOES: EVIDENCE FOR THE PRESENCE OF AEROSOLS
Evgenia BELOVA, Sheila KIRKWOOD, Phillip B. CHILSON, Ingemar HÄGGSTRÖM, Alefina OSEPIAN, Kerstin STEBEL
- 1740 JSM06/02P/B22-010**
THE FEATURES OF MESOSPHERIC DUSTY PLASMA IN THE VICINITY OF NOCTILUCENT CLOUDS AND PMSE
Alexander M. ZADOROZHNY, Alexander N. MATVEENKO

JSM07 Wednesday, July 2 PM

APPLICATION OF GPS TECHNIQUES IN THE ATMOSPHERE (IAMAS [ICMA], IAGA, IAG)
Location: Site B, Room 23

- Convener: T. Tsuda
Co-Conveners: H. van der Marel, A. Gershunov, N. Jakowski
Presiding Chairs: N. Jacowky, H. Takahashi
- 1400 JSM07/02P/B23-001 Invited**
IGS ACTIVITIES ON MEASUREMENTS TECHNIQUES IN THE IONOSPHERE: GLOBAL TEC MAPS
Manuel HERNANDEZ-PAJARES, Joachim FELTENS, Pierre HEROUX, Stefan SCHAER, Brian D. WILSON
- 1435 JSM07/02P/B23-002**
SOUND VELOCITY AND VISCOSITY IN THE UPPER ATMOSPHERE DETERMINED FROM OBSERVATIONS AND MODELING OF COUPLED SEISMIC-ACOUSTIC WAVES
Juliette ARTRU, Thomas FARGES, Philippe LOGNONNE, Elisabeth BLANC
- 1455 JSM07/02P/B23-003 Invited**
UPDATE ON COSMIC AND VERIFICATION OF CHAMP AND SAC-C DATA
Richard A. ANTHES, Doug HUNT, Ying-Hwa KUO, Christian ROCKEN, William SCHREINER, Sergey SOKOLOVSKIY
- 1530 JSM07/02P/B23-004**
CANADIAN GPS NETWORK FOR IONOSPHERE MONITORING - PRELIMINARY RESULTS
Susan H. SKONE, Mahmoud EL-GIZAWY

1550 BREAK

- 1615 JSM07/02P/B23-005**
TOTAL ELECTRON CONTENT OBSERVATION BY A DENSE GPS RECEIVER NETWORK IN JAPAN
Akinori SAITO, Y. OTSUKA, S. MIYAZAKI, T. TSUGAWA, K. NOGUCHI, K. TAGUCHI
- 1650 JSM07/02P/B23-006**
USING DOUBLE FREQUENCY GPS OBSERVATIONS TO COMPUTE THE IONOSPHERIC TOTAL ELECTRON CONTENT IN BRAZIL AFTER THE SOLAR MAXIMUM
Edvaldo Simões FONSECA JR., Denizar BLITZKOW
- 1710 JSM07/02P/B23-007**
SPACE CONSTELLATION FOR MONITORING OF NATURAL AND MAN-MADE CATASTROPHES
Victor N. ORAEVSKY, Kirill A. BOYARCHUK
- 1730 JSM07/02P/B23-008**
THE COMPARISON OF EARTH'S NEUTRAL ATMOSPHERIC PARAMETERS INVERSED WITH GPS/MET DATA AND CHAMP DATA
Xiaohua XU, Zhenghang LI

JSM07-Posters Wednesday, July 2 PM

APPLICATION OF GPS TECHNIQUES IN THE ATMOSPHERE (IAMAS [ICMA], IAGA, IAG)
Location: Site D

- 1400-180 JSM07/02P/D-001 Poster**
EFFECT OF HORIZONTAL REFRACTIVE INDEX GRADIENTS ON THE RESULTS OF DOWN LOOKING OCCULTATION: A SIMULATION ANALYSIS
Ashraf Elkutb MOUSA, Toshitaka TSUDA
- 1400-181 JSM07/02P/D-002 Poster**
ANALYSIS AND VALIDATION OF MT. FUJI DOWN LOOKING OCCULTATION EXPERIMENT IN THE LOWER ATMOSPHERE
Ashraf Elkutb MOUSA, Yuichi AOYAMA, Yoshinori SHOJI, Toshitaka TSUDA, Hajime NAKAMURA, Cinzia ZUFFADA, Goerge HAJJ
- 1400-182 JSM07/02P/D-003 Poster**
FORECASTING OF THE TOTAL ELECTRON CONTENT VALUES AT A SINGLE LOCATIONS
Andrzej KRANKOWSKI, Wieslaw KOSEK, Lubomir W. BARAN, Irk I. SHAGIMURATOV, Maciej KALARUS
- 1400-183 JSM07/02P/D-004 Poster**
ISOLATED IONOSPHERIC DISTURBANCES AS DEDUCED FROM GLOBAL GPS NETWORK
Elvira I. ASTAFIEVA, Edvard L. AFRAIMOVICH
- 1400-184 JSM07/02P/D-005 Poster**
TRAVELING WAVE PACKETS OF TOTAL ELECTRON CONTENT DISTURBANCES AS DEDUCED FROM GLOBAL GPS NETWORK
Sergey V. VOYEIKOV, Edward L. AFRAIMOVICH, Nataly P. PEREVALOVA
- 1400-185 JSM07/02P/D-006 Poster**
MONITORING OF IONOSPHERIC DISTURBANCES OF NATURAL AND TECHNOGENIC ORIGIN ON THE BASIS OF PROCESSING THE DATA FROM THE GLOBAL NETWORK OF GPS RECEIVERS USING THE GLOBDET SOFTWARE PACKAGE
Sergey V. VOYEIKOV, Edward L. AFRAIMOVICH, Oleg S. LESYUTA
- 1400-186 JSM07/02P/D-007 Poster**
ESTIMATION OF THE TROPOSPHERIC DELAY FROM GNSS DATA OVER THE AUSTRIAN TERRITORY
Elisabeth FRAGNER, Robert WEBER
- 1400-187 JSM07/02P/D-008 Poster**
ANALYSIS OF THE NONLINEAR BENDING ANGLE EQUATIONS FOR GPS ATMOSPHERIC SOUNDING
Joseph AWANGE, Yoichi FUKUDA, Shuzo TAKEMOTO
- 1400-188 JSM07/02P/D-009 Poster**
STUDY OF THE ERRORS IN TROPOSPHERIC PARAMETER ESTIMATES INDUCED BY ERRORS SIMULATED IN PRECISE GPS ORBITS
Jan DOUSA, Vratislav FILLER
- 1400-189 JSM07/02P/D-010 Poster**
BIAS AND SEASONAL VARIATION OF TROPOSPHERIC GRADIENT AROUND JAPAN
Yuki HATANAKA
- 1400-190 JSM07/02P/D-011 Poster**
GPS PWV MONITORING DURING THE PROGRESS OF A TYPHOON RUSA
Hong-Sic YUN, Dong-Seob SONG
- 1400-191 JSM07/02P/D-012 Poster**
APPLICATIONS OF GPS METEOROLOGY USING THE SWISS PERMANENT GPS NETWORK AGNES
Dieter SCHNEIDER, Elmar BROCKMANN, Daniel INEICHEN, Simon GRUENIG, Adrian WIGET, Urs WILD
- 1400-192 JSM07/02P/D-013 Poster**
ESTIMATION OF NEAR REAL-TIME TROPOSPHERIC SIGNAL DELAY FROM EUROPEAN PERMANENT GPS SITES
Matthias BECKER, Michael KIRCHNER, Petra HAEFELE, Wolfgang SOEHNE, Georg WEBER
- 1400-193 JSM07/02P/D-014 Poster**
TIME-HEIGHT DISTRIBUTION OF WATER VAPOR DERIVED BY MOVING CELL TOMOGRAPHIC TECHNIQUE USING TSUKUBA GPS CAMPAIGN
Wataru NOGUCHI, Takayuki YOSHIHARA, Toshitaka TSUDA, Kazuo HIRAHARA
- 1400-194 JSM07/02P/D-015 Poster**
IMPROVEMENT OF THE GPS OCCULTATION MEASUREMENT TECHNIQUE FROM MOUNTAINTOP
Yuichi AOYAMA, Yoshinori SHOJI, Wataru NOGUCHI, Takayuki YOSHIHARA, Toshitaka TSUDA
- 1400-195 JSM07/02P/D-016 Poster**
VARIOUS ASPECTS OF GPS TROPOSPHERIC DELAY ESTIMATION AND USEFULNESS
Michal KRUCZYK, Jerzy B. ROGOWSKI, Tomek LIWOSZ

1400-196JSM07/02P/D-017Poster

ACE+ WATER VAPOR RETRIEVAL USING SATELLITE-TO-SATELLITE MEASUREMENTS

Per HOEG, Gottfried KIRCHENGAST

1400-197JSM07/02P/D-018Poster

TOMOGRAPHY OF THE TROPOSPHERE USING DENSE GPS NETWORKS

Vesna DUCIC, Juliette ARTRU, Philippe LOGNONNE, Makoto MURAKAMI

1400-198JSM07/02P/D-019Poster

TIME VARIATION OF PRECIPITABLE WATER VAPOR OBTAINED FROM GPS IN THAILAND

Mikiko FUJITA, Fujio KIMURA, Mikio SATOMURA, Tosiya NAKAEGAWA, Teruyuki KATO

1400-199JSM07/02P/D-020Poster

POSITIONING PRECISION EVALUATION OF GPS: COMPARISON BETWEEN GPS AND SONDE- PRECIPITABLE WATER VAPORS

Kazuya HATAMOTO, Akira TAKEUCHI

1400-200JSM07/02P/D-021Poster

4-D TROPOSPHERIC TOMOGRAPHY BASED ON GROUND-BASED GPS OBSERVATION

Xiaoya WNAG, Yong-Qi CHEN, Ping-Wah LI

JSM09-PostersWednesday, July 2 PM

INTENSE VORTICES FROM THE SMALL SCALE TO THE PLANETARY SCALE (IAMAS [ICDM], IAPSO)

Location: Site D

1400-140JSM09/02P/D-001Poster

EXTRAPOLATION PREDICTION OF TROPICAL CYCLONE TRACKS THROUGH VARIATIONAL DATA ASSIMILATION METHOD

Jie XIANG, Rongsheng WU, Sixun HUANG

1400-141JSM09/02P/D-002Poster

CLOUD-RESOLVING NUMERICAL EXPERIMENTS OF POLAR LOW DEVELOPMENT IN IDEALIZED ENVIRONMENTSWITH AND WITHOUT BAROCLINICITY

Wataru YANASE, Hiroshi NIINO

1400-142JSM09/02P/D-003Poster

ASYMMETRIC ADJUSTMENT PROCESSES IN DEVELOPING TROPICAL CYCLONES

David S. NOLAN

1400-143JSM09/02P/D-004Poster

INFLUENCE OF VERTICAL WIND SHEAR ON THE FORMATION OF INITIAL VORTEX OF TROPICAL CYCLONE

Masuo NAKANO, Kensuke NAKAJIMA

JSM13Wednesday, July 2 PM

DATA ASSIMILATION FOR ATMOSPHERIC AND OCEANIC PROCESSES (IAMAS [ICDM, ICCP], IAHS, IAPSO, IAGA, IAG, SPARC)

Location: Site C, Room 28

Presiding Chairs: P. Bauer, A. Hou

HYDROLOGY AND RAINFALL

1400JSM13/02P/C28-001Invited

RECENT PROGRESS IN LAND DATA ASSIMILATION

Rolf H. REICHL, Paul R. HOUSER, Matt RODELL, Randal D. KOSTER

1430JSM13/02P/C28-002

ASSIMILATION OF SOIL MOISTURE OBSERVATIONS FROM TRMM MICROWAVE IMAGER USING NASA'S LAND DATA ASSIMILATION SYSTEM (LDAS)

Xiwu ZHAN, Paul R. HOUSER

1450PANEL DISCUSSION

1540BREAK

UPPER AND MIDDLE ATMOSPHERE

1600JSM13/02P/C28-003Invited

DATA ASSIMILATION FOR THE GLOBAL IONOSPHERE

Robert W. SCHUNK

1630JSM13/02P/C28-004Invited

IONOSPHERIC DATA ASSIMILATION FOR REAL-TIME GPS CORRECTIONS

Boris KHATTATOV, Michael MURPHY, James ADAMS

1700JSM13/02P/C28-005

STRATOSPHERIC DATA ASSIMILATION AT THE MET OFFICE

Richard SWINBANK, David JACKSON, Michael KEIL, Adam SCAIFE

1720JSM13/02P/C28-006

NECESSARY EVILS: USING AN OSSE TO ASSESS THE SCIENTIFIC MERIT OF THE FUTURE SWIFT MISSION

William A. LAHOZ

1740JSM13/02P/C28-007

MIDDLE ATMOSPHERE DATA ASSIMILATION IN CANADA

Shuzhan REN, Saroja POLAVARAPU, Yves ROCHON, David SANKEY

JSM17Wednesday, July 2 PM

MIXING AND ITS PARAMETERIZATION IN GEOPHYSICAL FLUIDS (IAMAS, IAPSO, IAHS)

Location: Site C, Room 31

Presiding Chair: B.R. Sutherland

1400JSM17/02P/C31-001Invited

LARGE-SCALE TRANSPORT AND MIXING IN THE MIDDLE ATMOSPHERE

Theodore G. SHEPHERD

1430JSM17/02P/C31-002

INTERACTION OF INERTIA-GRAVITY WAVES WITH A BAROTROPIC SHEAR FLOW

Chantal STAQUET, Neil R. EDWARDS

1450JSM17/02P/C31-003

INTERMITTENCY EFFECTS ASSOCIATED WITH INTERNAL GRAVITY WAVE BREAKING AND THEIR LINK WITH MIXING PROCESSES

Pascale BOURUET-AUBERTOT, Joel SOMMERIA, Christophe R. KOUDELLA

1510JSM17/02P/C31-004

LAGRANGIAN VIEW ON THE STRATOSPHERIC MIXING: CLAMS - CHEMICAL LAGRANGIAN MODEL OF THE STRATOSPHERE

Paul KONOPKA, Rolf MUELLER, Danny MCKENNA, Martin RIESE

1530BREAK

1550JSM17/02P/C31-005

MIXING IN THE REGION OF THE SUBTROPICAL JET: AN ANALYSIS OF HIGH RESOLUTION AIRCRAFT MEASUREMENTS

Eric A. RAY, Karen H. ROSENLOF, Erik RICHARD, David PARRISH, Roger JAKOUBEK

1610JSM17/02P/C31-006

AIRBORNE MEASUREMENTS OF MIXING IN THE TROPOPAUSE REGION

James A. WHITEWAY

1630JSM17/02P/C31-007

THE MIXING HEIGHT IN URBAN AREAS - RECENT ADVANCES AND FUTURE NEEDS

Alexander A. BAKLANOV

JSP01-PostersWednesday, July 2 PM

THE DECADAL TO CENTENNIAL VARIABILITY OF THE OCEAN AND ATMOSPHERE (IAPSO, IAMAS, CLIVAR)

Location: Site D

Presiding Chair: S. Minobe

1400-144JSP01/02P/D-001Poster

PACIFIC DECADAL OSCILLATION RELATED CHANGES IN THE HEAT BUDGET OF A MODEL OF THE NORTH PACIFIC

Jordan T. DAWE, LuAnne THOMPSON

1400-145JSP01/02P/D-002Poster

THE RESPONSE OF THE NORTH PACIFIC OCEAN TO DECADAL VARIABILITY IN ATMOSPHERIC FORCING: WIND VERSUS BUOYANCY FORCING

LuAnne THOMPSON, Carol A. LADD, Jordan T. DAWE

1400-146JSP01/02P/D-003Poster

INTERANNUAL /DECADAL VARIATIONS OF NORTH PACIFIC TROPICAL WATER OBSERVED ALONG THE 137E SECTION

Kanako SATO, Kimio HANAWA

1400-147JSP01/02P/D-004Poster

MULTIDECADAL VARIABILITY OF HEAT CONTENT ANOMALY FIELD IN THE PACIFIC AND ITS RELATION TO THE ALEUTIAN LOW AND TRANSPORT OF THE KUROSHIO

Takuya HASEGAWA, Kimio HANAWA

1400-148JSP01/02P/D-005Poster

INTERDECADAL CHANGE IN EAST-ASIAN MONSOON AND ITS MODELING

Hong-xing CAO, Haitou LIU, Hui-Zhong HE, Hui LI

1400-149JSP01/02P/D-006Poster

VARIATIONS OF THE KUROSHIO TRANSPORT AND ITS RELATION TO THE CLIMATE CHANGES OVER THE NORTH PACIFIC

Xuezhi BAI, Yongli CHEN

WEEK

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1400-150

JSP01/02P/D-007

Poster

INTERDECADAL VARIATION OF SST IN THE NORTH PACIFIC AND ATMOSPHERIC CIRCULATION / CLIMATE ANOMALIES
Chongyin LI

1400-151

JSP01/02P/D-008

Poster

METEOROLOGICAL AND HYDROLOGICAL DECADEAL VARIATION IN A SEMI-ENCLOSED BAY AND ITS RESPONSE TO THE CLIMATE CHANGE
Jianping WU, Jiaye ZANG, Hao WEI, Zhe LIU

1400-152

JSP01/02P/D-009

Poster

PECULIARITY OF TEMPERATURE CONDITION IN THE NORTHWESTERN SEA OF JAPAN (OF THE PETER-THE-GREAT BAY)
Larissa A. GAYKO

1400-153

JSP01/02P/D-010

Poster

LOW FREQUENCY SEA LEVEL VARIATIONS AROUND HAWAII AND THEIR RELATION TO THE NORTH PACIFIC HIGH
Yvonne L. FIRING, Mark A. MERRIFIELD, Thomas A. SCHROEDER, Bo QIU

1400-154

JSP01/02P/D-011

Poster

THE CLIVAR PACIFIC IMPLEMENTATION PANEL'S ROLE IN COORDINATED STUDIES OF DECADEAL TIMESCALE VARIABILITY.
Katy Louise HILL, Kelvin RICHARDS, Howard CATTLE

1400-155

JSP01/02P/D-012

Poster

A POSSIBLE NEW VARIETY OF MODE WATER IN THE NORTH PACIFIC SUBARCTIC GYRE
Hiroko SAITO, Toshio SUGA, Kimio HANAWA, Tomowo WATANABE, Shin-ichi ITO, Nobuyuki SHIKAMA

1400-156

JSP01/02P/D-013

Poster

WINTERTIME SHOALING OF MIXED LAYER IN THE LOW-MID LATITUDE IN THE NORTHPACIFIC
Emiri TAKEUCHI, Ichiro YASUDA

1400-157

JSP01/02P/D-014

Poster

A NATURAL INTER-DECADEAL OSCILLATION IN THE SOUTHERN HEMISPHERE ESTIMATED FROM A CLIMATE MODEL
Hyungmoh YIH, Tatsuo MOTOI, Wing-Le CHAN

1400-158

JSP01/02P/D-015

Poster

INTERANNUAL SEA LEVEL VARIATIONS IN THE INDIAN OCEAN FROM TOPEX/POSEIDON ALTIMETRY, TEMPERATURE DATA AND TIDE GAUGES
Virendra Mani TIWARI, C. CABANES, K. DOMINH, A. CAZENAVE

1400-159

JSP01/02P/D-016

Poster

AN ANALYSIS OF SSTA IN THE ATLANTIC OCEAN AND TELECONNECTIONS WITH ENSO
Constantin C. MARES, Ileana MARES

1400-160

JSP01/02P/D-017

Poster

ATMOSPHERIC TIDES IN THE AREA OF THESSALONIKI-NORTH GREECE. A TWENTY-SEVEN YEARS DATA ANALYSIS
Dimitrios N. ARABELOS, G.A. ASTERIADIS, M.E. CONTADAKIS, S.D. SPATALAS

1400-161

JSP01/02P/D-018

Poster

HEAT AND MASS BUDGETS OF THE WARM UPPER LAYER OF THE TROPICAL ATLANTIC OCEAN IN 1979-1999
Fabrice M. VAUCLAIR, Yves DU PENHOAT

1400-162

JSP01/02P/D-019

Poster

PRELIMINARY RESULTS FOR THE INTERANNUAL AND DECADEAL VARIABILITY OF A NEW UK COUPLED CLIMATE MODEL
Alex P. MEGANN, Bablu SINHA, Adrian NEW, Shan SUN

1400-163

JSP01/02P/D-020

Poster

HADRT3: AN IMPROVED GRIDDED RADIOSONDE TEMPERATURE PRODUCT
Peter W. THORNE, David E. PARKER, Simon F.B. TETT, Phil D. JONES, Mark MCCARTHY

JSP02

Wednesday, July 2 PM

NEW PERSPECTIVES OF COUPLED TROPICAL OCEAN-ATMOSPHERE DYNAMICS AND PREDICTABILITY (IAPSO, IAMAS, CLIVAR)

Location: Site B, Room 20

Convener: T. Yamagata

Co-Conveners: A.J. Busalacchi, R. Lukas, B. Wang

Presiding Chairs: R. Wajswicz, T. Yamagata

1405

JSP02/02P/B20-001

WILL GLOBAL WARMING INDUCE A PERMANENT EL NINO? (IT HAS HAPPENED BEFORE!)

George S. PHILANDER

1430

JSP02/02P/B20-002

Invited

WHY WE CAN'T TELL IF ENSO COMES FROM AN OSCILLATOR

Paul S. SCHOPP

1450

JSP02/02P/B20-003

SENSITIVITY OF EQUATORIAL OCEAN STRATIFICATION TO CHANGES IN MIDLATITUDE WINDS
Masami NONAKA, Julian P. MCCREARY, Shang-Ping XIE

1505

JSP02/02P/B20-004

THE RESPONSE OF ENSO TO SUBTROPICAL/EXTRATROPICAL COOLING: A NUMERICAL STUDY
De-Zheng SUN

1520

JSP02/02P/B20-005

HOW CAN OCEAN HEAT TRANSPORT IN THE PACIFIC VARY?
Wilco HAZELEGER, Richard SEAGER, Mark CANE, Naomi NAIK

1535

JSP02/02P/B20-006

SHALLOW TROPICAL-SUBTROPICAL OVERTURNING CELLS (STCS) AND TROPICAL PACIFIC/ATLANTIC VARIABILITY
Katja LOHMANN, Mojib LATIF

1550

BREAK

1610

JSP02/02P/B20-007

RECENT ADVANCES IN UNDERSTANDING THE IMPACT OF SALINITY ON THE DYNAMICS OF EL NINO
Christophe MAES

1630

JSP02/02P/B20-008

Invited

HIGH BAROCLINIC KELVIN WAVES, CENTRAL PACIFIC WARMING, AND ONSET OF EL NINO
Peter C. CHU, Jilin SUN, Qinyu LIU

1650

JSP02/02P/B20-009

ANNUAL ENSO
Tomoki TOZUKA, Toshio YAMAGATA

1705

JSP02/02P/B20-010

DYNAMICS IN THE WEST/CENTRAL PACIFIC AND VARIATIONS IN ENSO STRUCTURE
Mathew A. BARLOW, Michael TIPPETT, David SALSTEIN

1720

JSP02/02P/B20-011

ON THE FORMATION OF COLD TONGUE AND ENSO IN THE EQUATORIAL PACIFIC BASIN
Ming CAI

1735

JSP02/02P/B20-012

DYNAMICAL ANALYSIS OF WIND-DRIVEN VARIABILITY IN THE UPPER-OCEANIC LAYER OF THE TROPICAL PACIFIC
Daisuke FUKATA, Kunio KUTSUWADA

JWS01-Posters

Wednesday, July 2 PM

IS SHORT-TERM EARTHQUAKE PREDICTION POSSIBLE? (IASPEI, IAVCEI, IAG, IAGA)

Location: Site D

Convener: T. Nagao

Co-Conveners: S. Park, E. Gordeev, S. Yoshida

Presiding Chair: T. Nagao

1400-035

JWS01/02P/D-001

Poster

AN INDEPENDENT EVALUATION OF THE WEST PACIFIC SHORT-TERM EARTHQUAKE FORECAST
Vladimir G. KOSSOBOKOV

1400-036

JWS01/02P/D-002

Poster

SHORT-TERM PREMONITORY RISE OF THE EARTHQUAKE CORRELATION RANGE: 18 CASE HISTORIES FOR LARGEST EARTHQUAKES IN JAPAN (M >= 7) AND 3 IN CALIFORNIA (M >= 7.4)
Peter SHEBALIN, Vladimir KEILIS-BOROK, Ilya ZALIAPIN, Seiya UYEDA, Toshiyasu NAGAO, Nikolay TSYBIN

1400-037

JWS01/02P/D-003

Poster

ANNUAL CONSULTATION ON THE LIKELIHOOD OF EARTHQUAKES IN CHINA: A NEARLY 1/3 CENTURY FORWARD PREDICTION TEST
Chuanzhen ZHU, Yongjun SHI, Zhongliang WU

1400-038

JWS01/02P/D-004

Poster

THE CHARACTERISTIC CHANGES IN FRACTAL DIMENSION OF THE HYPOCENTER DISTRIBUTION PRECEDING THE LARGE EARTHQUAKES AND ITS TECTONIC SIGNIFICANCE
Kei MURASE

1400-039

JWS01/02P/D-005

Poster

ANALYSIS OF SEISMICITY AROUND THE WESTERN KANAGAWA, CENTRAL JAPAN FOR EARTHQUAKE PREDICTION
Toshikazu TANADA

1400-040

JWS01/02P/D-006

Poster

USE OF POTENTIAL FORESHOCKS TO ESTIMATE EARTHQUAKE PROBABILITIES IN THE EAST OFF TOHOKU, NORTHEAST JAPAN
Masajiro IMOTO

P.128

IUGG2003

1400-041 JWS01/02P/D-007 Poster
A NEW STOCHASTIC PREDICTION METHOD OF MAJOR AFTERSHOCKS IN EARLY STAGE
Masami OKADA

1400-042 JWS01/02P/D-008 Poster
ANOMALIES OF INCREASED SEISMICITY IN EARTHQUAKE CASES OF CHINA FROM 1992 TO 1999
Qi-fu CHEN, Shengping SU

1400-043 JWS01/02P/D-009 Poster
ON THE PHYSICAL MECHANISM OF SILENT SLIP EVENTS ALONG THE DEEPER PART OF THE SEISMOGENIC ZONE
Bunichiro SHIBAZAKI

1400-044 JWS01/02P/D-010 Poster
PRECURSORS OF KAMCHATKAN EARTHQUAKES
Yevgenii I. GORDEEV, Vadim A. SALTYSKOV, Yulia K. SERAFIMOVA

1400-045 JWS01/02P/D-011 Poster
PRE- AND CO- SEISMIC GEOELECTRIC POTENTIAL CHANGES OBSERVED IN JAPAN
Seiya UYEDA, Toshiyasu NAGAO, Yoshiaki ORIHARA, Tohrulkurumi YAMAGUCHI, Ichiro TAKAHASHI, Katsumi HATTORI, Yoichi NODA, Keizo SAYANAGI

1400-046 JWS01/02P/D-012 Poster
THE SELECTIVITY OF THE IOANNINA VAN STATION
Seiya UYEDA, Saya KONDO, Toshiyasu NAGAO

1400-047 JWS01/02P/D-013 Poster
THE FEATURES OF THE SEISMICITY SPECTRUM IN THE NATURAL TIME DOMAIN
NICHOLAS V. SARLIS, Panayiotis A. VAROTSOS, Efthimios S. SKORDAS

1400-048 JWS01/02P/D-014 Poster
ON A TENTATIVE INTERRELATION BETWEEN SEISMIC ELECTRIC SIGNAL ACTIVITIES AND THE SUBSEQUENT SEISMICITY, WHEN THEY ARE ANALYZED IN THE NATURAL TIME-DOMAIN
Efthimios S. SKORDAS, Panayiotis A. VAROTSOS, Nicholas V. SARLIS

1400-049 JWS01/02P/D-015 Poster
METHODOLOGY AND EQUIPMENT USED FOR EMPHASIZING THE SHORT-TERM ELECTROMAGNETIC (EM) PRECURSORY PARAMETERS OF THEVRANCEA'S EARTHQUAKES.
Dumitru STANICA, Maria STANICA

1400-050 JWS01/02P/D-016 Poster
OBSERVATION AND ANALYSIS OF A STRAIN TRANSIENT COUPLED TO AN EARTHQUAKE SWARM IN THE RIFT OF CORINTH, GREECE
Pascal BERNARD, Selwyn SACKS, Alan LINDE, Frédéric BOUDIN, Jiri ZAHRAĐNIK, Hélène LYON-CAEN, Anne DESCHAMPS, Geneviève PATAU, Panayotis PAPADIMITRIOU, Akis TSELENTIS, Hugues CASTAREDE

1400-051 JWS01/02P/D-017 Poster
PRESEISMIC CHANGES IN GROUNDWATER LEVEL ASSOCIATED WITH EARTHQUAKE SWARMS OFF THE EAST COAST OF THE IZU PENINSULA, JAPAN
Naoji KOIZUMI, Yuichi KITAGAWA, Norio MATSUMOTO, Makoto TAKAHASHI, Tsutomu SATO, Osamu KAMIGAICHI

1400-052 JWS01/02P/D-018 Poster
EFFECT OF TECTONIC-SEISMIC CHARACTERISTICS OF THE DISTRICT ON THE ACTIVITY OF RADON, USING THE EXAMPLE OF TASHKENT MEGACITY
Nigora MIRZAKHMEĐOVA, Kakharbay Nasirbekov ABDULLABEKOV, Agbar Rakhmatovich YARMUKHAMEDOB, D. ZAREĐINOV, A. YAFASOV, Ab. YAFASOV

1400-053 JWS01/02P/D-019 Poster
DELINEATION OF VLF ELECTROMAGNETIC SIGNALS ASSOCIATED WITH EARTHQUAKES: UPDATED CASE STUDIES
Hisatoshi BABA, Toshi ASADA, Masahisa SUGIURA

1400-054 JWS01/02P/D-020 Poster
DEVELOPMENT OF A SYSTEM FOR IDENTIFYING SOURCE LOCATIONS OF EXCITED ELECTROMAGNETIC PULSES IN THE DEEP EARTH
Minoru TSUTSUI, Shigeo KONAGAYA, Tadayoshi KAGAWA

1400-055 JWS01/02P/D-021 Poster
ANOMALOUS ELECTRIC FIELD VARIATIONS RELATED WITH EARTQUAKES AND VOLCANIC ERUPTIOS
Yukio FUJINAWA, Kozo TAKAHASHI, Takumi MATSUMOTO, Shinobu YAZAKI, Hiroshi IITAKA, Takeshi NAKAYAMA, Toyoaki SAWADA, Hideo SAKAI

1400-056 JWS01/02P/D-022 Poster
LARGE-SCALE EM RADIATION FROM SEA SURFACE AREAS NEAR TRENCHES
Masayasu HATA, Ichi TAKUMI, Hiroshi YASUKAWA, Seiji YABASHI

1400-057 JWS01/02P/D-023 Poster
CAN IONOSPHERIC PRECURSORS HELP IN SHORT-TIME EARTHQUAKE PREDICTION?
Sergey A. PULINETS, Jann Yeng LIU, Kirill A. BOYARCHUK, Tamara V. GAIVORONSLAYA, Anna D. LEGEN'KA

1400-058 JWS01/02P/D-024 Poster
IS THE PULSED EMISSION REGISTERED IN WESTERN AUSTRALIA THE NEW TYPE OF SEISMO-ELECTROMAGNETIC EMISSION?
Sergey A. PULINETS, Phillip HOLLIS-WATTS

1400-059 JWS01/02P/D-025 Poster
IONOSPHERIC PRECURSORS FOR SEVERAL MAJOR EARTHQUAKES IN INDIA
Reddy Madhava BORRA, Lakshmi Rama DUGGIRALA, Birbal SINGH

1400-060 JWS01/02P/D-026 Poster
THEORETICAL MODEL OF POSSIBLE ELECTRON DENSITY PERTURBATIONS IN THE MID-LATITUDE NIGHTTIME D-REGION IONOSPHERE OVER THE MAJOR EARTHQUAKEPREPARATION AREA
Vitalii P. KIM, Sergei A. PULITETS, Valerii V. HEGAI

1400-061 JWS01/02P/D-027 Poster
EVALUATION OF ELECTRIC FIELD CHANGES WITH RESPECT TO MULTILAYER CAPACITOR MODEL FOR THE EARTHQUAKE FORECAST
Berk USTUNDAG, Haluk EYIDOGAN

1400-062 JWS01/02P/D-028 Poster
EARTHQUAKE FORECAST BY RADIO OBSERVATIONS IN THE VHF BAND 1
Yoshio KUSHIDA, Reiki KUSHIDA

1400-063 JWS01/02P/D-029 Poster
EARTHQUAKE FORECAST BY RADIO OBSERVATIONS IN THE VHF BAND 2
Yoshio KUSHIDA, Reiki KUSHIDA

1400-064 JWS01/02P/D-030 Poster
ELECTROMAGNETIC PHENOMENA POSSIBLY ASSOCIATED WITH EARTHQUAKES OBTAINED WITH BROADBAND VHF OBSERVATIONS
Toshiaki TAKANO, Kurt SAKAI, Atsushi YAMADA, Han HIGASA, Shin SHIMAKURA

1400-065 JWS01/02P/D-031 Poster
OBSERVATION NET-WORK FOR KUSHIDA'S METHOD -EMPIRICAL EARTHQUAKE FORCAST TECHNIQUE AND MODIFICATION OF INSTRUMENT-
Takeo MORIYA

1400-066 JWS01/02P/D-032 Poster
MODIFICATION OF KUSHIDA'S METHOD AND PRELIMINARY RESULT -HIGH POSSIBILITY METHOD FOR EARTHQUAKE FORECAST BASED ON THE EXPLORATION FOR VHF SCATTERER IN THE ATMOSPHERE-
Takeo MORIYA, Toru MOGI, Masahide TAKADA, Minoru KASAHARA

1400-067 JWS01/02P/D-033 Poster
POSSIBLE MECHANISM OF THE OVER-HORIZON RECEPTION OF FM RADIO WAVES DURING EARTHQUAKE PREPARATION PERIOD
Viacheslav PILIPENKO, Sergey SHALIMOV, Seiya UYEDA, Haruo TANAKA

1400-068 JWS01/02P/D-034 Poster
SEISMO- ATMOSPHERIC DISTURBANCES OBSERVED BY ANOMALOUS TRANSMISSION OF VHF ELECTROMAGNETIC WAVES
Masashi KAMOGAWA, Hironobu FUJIWARA, Hiroshi SAKATA, Jann-Yenq LIU, Hideho OFURUTON, Yu-Jung CHUO

1400-069 JWS01/02P/D-035 Poster
OBSERVATION OF SEISMO- ATMOSPHERIC ELECTRIC FIELD VARIATION
Masashi KAMOGAWA, Jann-Yenq LIU, Hironobu FUJIWARA, Yu-Jung CHUO, Toshiyasu NAGAO, Seiya UYEDA, Hideho OFURUTON, Yoshi-Hiko OHTSUKI

1400-070 JWS01/02P/D-036 Poster
GEOMAGNETIC ANOMALY SIGNATURES PRIOR TO M > 5.0 TAIWAN EARTHQUAKES
Chieh-Hung CHEN, Jann-Yeng LIU, Yuh-Ing CHEN, Horng-Yuan YEN

1400-071 JWS01/02P/D-037 Poster
RESEARCH ON SEISMO-ELECTROMAGNETIC PRECURSORS OF EARTHQUAKE-- NEW GEOMAGNETIC NETWORK OF TAIWAN
Horng-Yuan YEN, Yih-Hsiung YEH, iSTEP group

1400-072 JWS01/02P/D-038 Poster
THE GUEST FOR FORESHOCKS IN TOTAL ELECTRON CONTENT VARIATIONS IN THE IONOSPHERE USING THE DATA FROM THE GLOBAL GPS NETWORK
Elvira I. ASTAFIEVA, Edvard L. AFRAIMOVICH

1400-073 JWS01/02P/D-039 Poster
SEISMO-IONOSPHERIC PRECURSORS
Jann-Yenq LIU, Yuh-Ing CHEN, Yu-Jung CHUO

1400-074 JWS01/02P/D-040 Poster
SEISMO-IONOSPHERIC ANOMALIES MONITORED BY GPS TEC
Yu-Jung CHUO, Jann-Yenq LIU, Yuh-Ing CHEN, S.J. SHAN

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1400-075	JWS01/02P/D-041	Poster	1400-092	JWS01/02P/D-058	Poster
RLATION BETWEEN GPS TEC AND ULF GEOMAGNETIC VARIATIONS Nobuhiro ISEZAKI			HYDRO-ACOUSTIC LOCATION OF AN OCEANIC EARTHQUAKE PREPARATION REGION Elena V. SASSOROVA, Boris W. LEVIN, Victor E. MOROZOV, Igor N. DIDENKULOV		
1400-076	JWS01/02P/D-042	Poster	1400-093	JWS01/02P/D-059	Poster
THE CONNECTION OF THE ELEMENTS OF THE GLOBAL ELECTRIC CHAIN WITH GELIOSPHERIC CURRENT LAYER DURING STRONG KAMCHATKA EARTHQUAKES Sergey Eduardovich SMIRNOV			ELECTROMAGNETIC CONFIRMATION OF THE CRITICAL EARTHQUAKE HYPOTHESIS Konstantinos A. EFTAXIAS, Panayiotis G. KAPIRIS, Athanasios S. PERATZAKIS		
1400-077	JWS01/02P/D-043	Poster	1400-094	JWS01/02P/D-060	Poster
ANOMALOUS SPORADIC-E IONIZATION BEFORE THE M7.3 HYOGO-KEN NANBU EARTHQUAKE Tadanori ONDOH			THE DEVELOPMENT OF A SEISMO- ELECTROMAGNETIC THEORY FOR LOW- LATITUDES. Emmanuel Oluwagbemi JOSHUA, Egun Olufunmilayo ONI		
1400-078	JWS01/02P/D-044	Poster	1400-095	JWS01/02P/D-061	Poster
PRINCIPAL ANPREMENT AND FRACTAL ANALYSES OF ULF GEOMADNETIC DATA FOR IZU ISLANDS EARTHQUAKES IN JULY 2000 Masashi HAYAKAWA, Kaoru GOTOH, Yoshikazu AKINAGA, Katsumi HATTORI			POWER SPECTRUM FEATURES OF THE NEAR-EARTH ATMOSPHERIC ELECTRIC FIELD IN KAMCHATKA Yuri M. MIKHAILOV, G.A. MIKHAILOVA, O.V. KAPUSTINA, A.V. BUZEVICH, S.E. SMIRNOV		
1400-079	JWS01/02P/D-045	Poster	1400-096	JWS01/02P/D-062	Poster
SUBIONOSPHERIC VLF MONITORING FOR EARTHQUAKE-RELATED IONOSPHERIC PERTURBATION Masashi HAYAKAWA, A.V. SHVETS, O.A. MOLCHANOV, K. MIYAKI			THE EARTH TIDES AND SEISMISITY INFLUENCE ON INTENSITY OF NEAR EARTH ELECTRIC FIELD PULSES Alexander N. KROLEVETS, Vladimir K. PAVLYUKOV		
1400-080	JWS01/02P/D-046	Poster	1400-097	JWS01/02P/D-063	Poster
ULF GEOMAGNETIC APPROACH TO SHORT-TERM EARTHQUAKE PREDICTION : SUMMARY OF OBSERVATIONAL RESULTS IN RIKEN/NASDA'S FRONTIER PROJECT Katsumi HATTORI, Kaoru GOTOH, Chie YOSHINO, Ichiro TAKAHASHI, Yuri KOPYTENKO, Valery KOREPANOV, Masashi HAYAKAWA, Kiyohumi YUMOTO, Nobuhiro ISEZAKI, Toshiyasu NAGAO, Seiya UYEDA			ATMOSPHERIC ANOMALIES DETECTED BY RADIO ASTRONOMY METHODS BEFORE AND AFTER THE EARTHQUAKES ON JUNE 22 AND SEPTEMBER 2, 2002 IN THE NORTH-WESTERN PART OF IRAN Khachik Haykazi MANASELYAN, Albert Garegini GHULYAN, Vagharshak Avetisi SANAMYAN, Radik Martirosi MARTIROSYAN		
1400-081	JWS01/02P/D-047	Poster	1400-098	JWS01/02P/D-064	Poster
ULF GEOMAGNETIC AND GEOPOTENTIAL MEASUREMENTS IN TAIWAN Katsumi HATTORI, Chie YOSHINO, Ichiro TAKAHASHI, Nobuhiro ISEZAKI, Toshiyasu NAGAO, Jann-Yenq LIU, Chiou-Fen SHIEH, Hwa-Chu SHEU			EVALUATION OF SEISMOGENIC ANOMALIES IN ATMOSPHERE BY RADIO ASTRONOMICAL METHOD. FIRST APPROXIMATION Khachik Haykazi MANASELYAN		
1400-082	JWS01/02P/D-048	Poster	1400-099	JWS01/02P/D-065	Poster
SIGNAL CLASSIFICATION OF ULF GEOMAGNETIC DATA WITH USE OF INTERSTATION TRANSFER FUNCTION Makoto HARADA, Katsumi HATTORI, Nobuhiro ISEZAKI			THE PROBLEM OF EARTHQUAKES PREDICTION Ikram G. KERIMOV		
1400-083	JWS01/02P/D-049	Poster	1400-100	JWS01/02P/D-066	Poster
CHANGES OF THE ULF GEOMAGNETIC SIGNALS ASSOCIATED WITH THE EARTHQUAKE SWARM IN THE IZU ISLAND REGION, JAPAN Qinghua HUANG, Aimin DU, Katsumi HATTORI			EARTHQUAKE PREDICTION MULTIDISCIPLINARY RESEARCH:OPTIMISTIC, PESSIMISTIC AND REALISTIC ANALYSES Serguei BALASSANIAN		
1400-084	JWS01/02P/D-050	Poster	1400-101	JWS01/02P/D-067	Poster
THE ULF GEOMAGNETIC FIELD AND THE REGIONAL SEISMICITY IN YUNNAN: PRELIMINARY RESULTS FROM THE SINO-MAGNETIC ARRAY AT LOW LATITUDES (SMALL) Qinghua HUANG, Yufen GAO, Qi LI			DEEP-ROOTED GEOLOGIC STRUCTURES AND FLUIDS AS POSSIBLE WAVE- GUIDES FOR PRECURSORY SIGNALS OF SUBCRUSTAL MEGASEISMIC EVENTS: TOWARDS A NEW STRATEGY OF SHORT-TERM SEISMIC FORECASTING Dorel ZUGRAVESCU, Alexandru SAKACS, Aurica DAMIAN		
1400-085	JWS01/02P/D-051	Poster	1400-102	JWS01/02P/D-068	Poster
ULTRA LOW FREQUENCY MAGNETIC FIELD MEASUREMENTS ASSOCIATED WITH EARTHQUAKES IN INDONESIA Sarmoko SAROSO, Mamat RUHIMAT			PREDICTION ASPECTS OF THE NOV. 29, 1999 M=5.6 XIUYAN EARTHQUAKE FROM DOUBLE DIFFERENCE RELOCATION Wnjie JIAO, Winston CHAN, Hoadng GU, Guangyu GU		
1400-086	JWS01/02P/D-052	Poster	1400-103	JWS01/02P/D-069	Poster
SHORT-TERM EARTHQUAKE PREDICTION:EVOLUTIONARY CONSTRAINTS ON SENSORY PERCEPTION BY ANIMALS Joseph L. KIRSCHVINK			INVERSION METHOD OF PRECUSOR-FIELD IN TRACING SHORT-TERM PRECURSOR AND EARTHQUAKE PARAMETER PREDICTION Jun YANG, Zhang SHAO-ZHI, Fan GUI-YING, Liu HONG-GUI, Shi LI-QIN, Wu XIU-HUA		
1400-087	JWS01/02P/D-053	Poster	1400-104	JWS01/02P/D-070	Poster
DISTURBED CIRCADIAN RHYTHM OF MOUSE BEFORE THE KOBE EARTHQUAKE IN 1995 BY EXPOSURE TO ELECTROMAGNETIC PULSES Sayoko YOKOI, Motoji IKEYA, Takeshi YAGI, Katsuya NAGAI			EVIDENCE FOR NONRANDOM CLUSTERING OF M4+ SEISMICITY IN CALIFORNIA John E. EBEL, Alan L. KAFKA		
1400-088	JWS01/02P/D-054	Poster	1400-105	JWS01/02P/D-071	Poster
AUTOMATIC OBSERVATIONAL NETWORK OF CATFISH ACTIVITY TO VERIFY UNUSUAL ANIMAL BEHAVIOR BEFORE EARTHQUAKES: MONITORING AT HIGH SCHOOLS THROUGHOUT JAPAN Yutaka EMOTO, Kenji FUKUDA, Hiroshi ASAHARA, Chihiro YAMANAKA, Motoji IKEYA			VIBROSEISMIC INTERFEROMETRY METHOD OF THE MONITORING OF EARTHQUAKE AND VOLCANIC ZONES Valery V. KOVALEVSKY		
1400-089	JWS01/02P/D-055	Poster	1400-106	JWS01/02P/D-072	Poster
MONITORING OF FISH ACTIVITY IN EARTHQUAKE PREDICTION RESEARCH Alexander Y. SIDORIN, Alexei V. DESHCHEREVSKY			SIMULATION OF TEMPORAL EVOLUTION OF SEISMICITY BEFORE STRONG EARTHQUAKES USING CELLULAR AUTOMATION MODEL Gang LI		
1400-090	JWS01/02P/D-056	Poster	1400-107	JWS01/02P/D-073	Poster
THE UNDERGROUND BACKGROUND SOUND AS A SHORT-TERM EARTHQUAKE PRECURSOR Alexander Y. SIDORIN, Ascold S. BELYAKOV, Valery A. GAVRILOV, Yuliya V. MOROZOVA			MEASUREMENT OF A DIURNAL VARIATION OF AEROSOL SHORT LIFE RADON-THORON DAUGHTER NUCLIDE CONCENTRATION FOR THE PURPOSE OF AN EARTHQUAKE SHORT-TERM FORECAST Kiyoshi WADATSUMI, Yoshinobu IDA, Masahide NISHIHASHI		
1400-091	JWS01/02P/D-057	Poster	1400-108	JWS01/02P/D-074	Poster
PRINCIPAL CHARACTERISTICS OF GEOACOUSTIC EMISSION BASED ON OBSERVATIONS IN A DEEP BOREHOLE Valery A. GAVRILOV, Julia V. MOROZOVA			THE RELATION BETWEEN TIDAL FORCE TRIGGERING TO SIGNIFICANT SHOCKS AND THE LARGE EARTHQUAKE AND ITS APPLICATION IN EARTHQUAKE PREDICTION Ronghua CHEN		

1400-109	JWS01/02P/D-075	Poster
SATELLITE INFRARED THERMAL ANOMALIES PRECURSORY TO FOREST FIRE ,VOLCANIC ERUPTION AND SEISMIC ACTIVITIES Zu Ji QIANG, Qi SONG, Xing LIN, Lin MA		
1400-110	JWS01/02P/D-076	Poster
BRIGHTNESS TEMPERATURE ANOMALY DURING GUJARAT EARTHQUAKE USING SSM/I DATA Netramani HARIJAN		
1400-111	JWS01/02P/D-077	Poster
STUDY OF A GRAVITY PRECURSOR MODE OF THE LIJIANG EARTHQUAKE WITH MS7.0 Chongyang SHEN, Hui LI, Guangyu FU		
1400-112	JWS01/02P/D-078	Poster
INTRODUCTION TO EARTHQUAKE GEOLOGY, CRUSTAL STRESS, CLOUD IMAGINE DISASTER PREDICTION RESEARCH Xiangning HUANG, Ningbo- YU		
1400-113	JWS01/02P/D-079	Poster
INTRODUCTION TO CY-TYPE PRESSURE-MAGNETISM CRUSTAL STRESS MEASUREMENT SYSTEM Xiangning HUANG, Ningbo- YU		
1400-114	JWS01/02P/D-080	Poster
CRUSTAL STRESS MEASUREMENT IN THE PHILIPPINES USING PIEZOMAGNETIC STRESSOMETERS AND HARNESSING COMMUNITY PARTICIPATION IN EARTHQUAKE MONITORING Rhommel Nepomuceno GRUTAS, Myleen E. CARLOS, Huang XIANGNING, Ge LIMING, Ma.Leonila P. BAUTISTA, Bartolome C. BAUTISTA, Janet S. MANAHAN, Jane T. PUNONGBAYAN, Jean C. CHU		
1400-115	JWS01/02P/D-081	Poster
DETERMINING THE LOCATION OF FUTURE EARTHQUAKE FOCAL ZONES BY A NETWORK OF MULTIPLE MDCB-5 MODEL IMMINENT EARTHQUAKE MONITORING INSTRUMENTS Wen-xiang WANG, Wu-yang YANG		
1400-116	JWS01/02P/D-082	Poster
ANOMALOUS PHENOMENA APPEARED SYNCHRONISTICALLY BEFORE 1993 SW-OFF HOKKAIDO EARTHQUAKE IN JAPAN Hideo TORIYAMA, Shin'ichi UDA		
1400-117	JWS01/02P/D-083	Poster
BIOELECTRIC POTENTIALS OF SILK TREE RELATED WITH EARTHQUAKES Cheng-guo JING, Congbai SU, HIDEO TORIYAMA		
1400-118	JWS01/02P/D-084	Poster
OVERVIEW OF OBSERVATION AND STUDY OF PLANT RELATED WITH EARTHQUAKES Congbai SU, Junjie GUO, Qi FAN		
1400-119	JWS01/02P/D-085	Poster
EARTH REVOLUTION, MOON PHASE, ATROMONY EVENTS, EFFECT IN GEOMAGNETIC FIELD, AND THE "MANGNETIC STORM DOUBLE TIME METHOD" FOR PREDICTING OCCURRENCE TIME, MAGNITUDE AND EPICENTER LOCATION OF EARTHQUAKES I-wan CHEN		
1400-120	JWS01/02P/D-086	Poster
THE DYNAMIC STATISTICAL CHARACTERISTICS BETWEEN THE EARTHQUAKE, GROUND TEMPERATURE AND PRECIPITATION IN CHINA Hao JIANG, Maocang TANG		

JSV03-Posters

Wednesday, July 2 PM

FLOOD BASALT VOLCANISM (IAVCEI, IASPEI)

Location: Site D

1400-173	JSV03/02P/D-001	Poster
RB-SR AGE AND SR ISOTOPIC COMPOSITION OF ALKALINE DYKES NEAR MUMBAI(BOMBAY): EVIDENCE FOR THE DECCAN TRAP -REUNION PLUME CONNECTION Kaigala Venkata SUBBARAO, Richa SAHU, Anil KUMAR, JohnNicholas WALSH		
1400-174	JSV03/02P/D-002	Poster
DEEP DENSITY STRUCTURE UNDER SOUTHERN PART OF NINETYEAST RIDGE, AN AREA OF HOTSPOT - RIDGE INTERACTION DURING PALEOCENE Virendra Mani TIWARI, D.C. MISHRA		
1400-175	JSV03/02P/D-003	Poster
THE PETROLOGICAL RECORDS OF THE MESOZOIC-CENOZOIC MANTLE PLUME TECTONIC IN SOUTHEAST CHIANA CONTINENT Jianren MAO, Tao KUIYUAN, Xing GUANGFU, Yang ZHULIANG, Xue HUAMIN		
1400-176	JSV03/02P/D-004	Poster
TEMPORAL MANTLE MELT SUPPLY AND ITS DOMINANT EFFECT ON THE TEMPORAL VARIATIONS OF VOLCANIC ACTIVITY ALONG MID-OCEAN RIDGES Abdolreza GHODS		

1400-177	JSV03/02P/D-005	Poster
CHRONOLOGY OF VOLCANIC ACTIVITY WITHIN SEDANKINSKY DOL LAVA FIELD, NORTHERN PART OF SREDINNY RIDGE, KAMCHATKA, RUSSIA Oleg DIRKSEN, Bazanova L. I.		
1400-178	JSV03/02P/D-006	Poster
GEOELECTRIC STRUCTURE OVER THE DECCAN FLOOD BASALTS USING MAGNETOTELLURIC STUDIES Gautam GUPTA, Sanjay Gurunath GOKARN, Chinta K. RAO		
1400-179	JSV03/02P/D-007	Poster
AFRICAN SUPER PLUME, FLOOD BASALTS, AND BREAKUP OF GONDWANA Kensaku TAMAKI		

JSV04

Wednesday, July 2 PM

RECENT ADVANCES IN QUANTITATIVE VOLCANO SEISMOLOGY (IAVCEI, IASPEI)

Location: Site A, Room 7

Presiding Chairs: B. Chouet, H. Kumagai		
1400	JSV04/02P/A07-001	
THE MODELLING OF LOW-FREQUENCYVOLCANIC EARTHQUAKES Philippe G. M. JOUSSET, Jorgen NEUBERG, Susan STURTON, Arthur D. JOLLY		
1415	JSV04/02P/A07-002	
DAMPING AND AMPLIFICATION OF SEISMIC WAVES IN GAS-CHARGED MAGMA Jorgen W. NEUBERG, Lindsey COLLIER, Nadav G. LENSKY, Vladimir LYAKHOVSKY, Oded NAVON		
1430	JSV04/02P/A07-003	
PROPAGATION OF PRESSURE WAVES IN BUBBLY MAGMAS: THE EFFECT OF MAGMA RHEOLOGY, HEAT TRANSFER, AND VOLATILE DIFFUSION Mie ICHIHARA, Masaharu KAMEDA		
1445	JSV04/02P/A07-004	Invited
EXPERIMENTAL INSIGHT INTO SOURCE MECHANISMS FOR VERY-LONG-PERIOD SEISMIC SIGNALS GENERATED DURING DEGASSING AT STROMBOLI VOLCANO Mike R. JAMES, Stephen J. LANE, Bernard A. CHOUET		
1505	JSV04/02P/A07-005	Invited
REPETITIVE FRACTURE AND HEALING OF RISING VISCOELASTIC MAGMA AS A NON-DESTRUCTIVE TRIGGER MECHANISM FOR HYBRID EARTHQUAKES Hugh TUFFEN, Donald B. DINGWELL, Harry PINKERTON		

1525	BREAK	
1545	JSV04/02P/A07-006	Invited
EFFECTS OF MELT GEOMETRY ON THE ACOUSTIC AND RHEOLOGICAL PROPERTIES OF PARTIALLY MOLTEN ROCKS Yasuko TAKEI		
1605	JSV04/02P/A07-007	
THREE-DIMENSIONAL S-WAVE VELOCITY STRUCTURE OF IWATE VOLCANO IN JAPAN, BASED ON THE ABSOLUTELY ACCURATE HYPOCENTERS Satoru TANAKA		
1620	JSV04/02P/A07-008	Invited
THREE-DIMENSIONAL ACTIVE SEISMIC INVESTIGATION OF THE CAMPI FLEGREI CALDERA (SOUTHERN ITALY) Aldo ZOLLO, Sebastien JUDENHERC, Emmanuel AUGER, Jean VIRIEUX, Paolo CAPUANO, Claudio CHIARABBA, Roberto DE FRANCO, Jannis MAKRIS, Alberto MICHELINI, Gemma MUSACCHIO, SERAPIS GROUP		



G01

Wednesday, July 2 PM

POSITIONING. MEETING OF IAG SECTION I

Location: Site C, Room 24

Presiding Chair: S.H. Skone

GNSS FOR ATMOSPHERIC REMOTE SENSING AND DEFORMATION MONITORING

1400	G01/02P/C24-001	
GPS AS AN ATMOSPHERIC REMOTE SENSING TOOL Hans VAN DER MAREL, Susan SKONE		
1415	G01/02P/C24-002	
TROPOSPHERE MODELLING USING A REGIONAL GPS NETWORK Susan H. SKONE, Victoria HOYLE, Sudhir Man SHRESTHA		

- 1435 G01/02P/C24-003**
NUMERICAL WEATHER PREDICTIONS FOR GPS POSITIONING
Anna B.O. JENSEN
- 1455 G01/02P/C24-004**
APPLICATION OF THE NEQUICK IONOSPHERIC MODEL TO IMPROVE GNSS USE FOR SINGLE POINT POSITIONING
Claudio A. BRUNINI, Mauricio A. GENDE, Sandro M. RADICELLA, Reinhart LEITINGER, Bruno NAVA
- 1515 G01/02P/C24-005**
IONOSPHERIC CORRECTION IN LOW-LATITUDE AREA BASED ON GPS ACTIVE NETWORK
Wu CHEN, Congwei HU, Yongqi CHEN, Xiaoli DING, Simon Chi-wo KOWK, Shan GAO
- 1535 G01/02P/C24-006**
CHARACTERISING IONOSPHERIC GPS SCINTILLATION IN NORTHERN EUROPE
Marcio Henrique O. AQUINO, Fabiano Silveira RODRIGUES, Terry MOORE, Alan H. DODSON
- 1555 BREAK**
- 1615 G01/02P/C24-007**
REPORT ABOUT THE ACTIVITIES OF IAG SPECIAL COMMISSION 4 ONAPPLICATION OF GEODESY TO ENGINEERING1999 - 2003
Heribert KAHMEN
- 1630 G01/02P/C24-008**
COMBINED EVALUATION OF GEODETIC AND GEOTECHNICAL DATA DURING TUNNEL EXCAVATION BY USE OF A KNOWLEDGE-BASED SYSTEM
Klaus CHMELINA, Heribert KAHMEN
- 1650 G01/02P/C24-009**
LOCAL DEFORMATION MONITORING USING REAL-TIME GPS KINEMATIC TECHNOLOGY
Richard Brian LANGLEY, Donghyun (Don) KIM, Jason BOND, Adam CHRZANOWSKI
- 1710 G01/02P/C24-010**
HYBRID SENSOR SYSTEM FOR BRIDGE DEFORMATION MONITORING: INTERFACING WITH STRUCTURAL ENGINEERS
Xiaolin MENG, Alan DODSON, Gethin ROBERTS, Emily COSSER
- 1730 G01/02P/C24-011**
A NEW MODEL FOR DEFORMATION DETECTION WITH GPS
Xiaohong ZHANG
- 1750 G01/02P/C24-012**
THE INTEGRATION OF GPS AND PSEUDOLITES FOR BRIDGE MONITORING
Joel BARNES, Chris RIZOS, Hung-Kyu LEE, Gethin W. ROBERTS, Xiaolin MENG, Emily COSSER, Alan H. DODSON



IAGA

GAI.03-Posters Wednesday, July 2 PM

MEASUREMENT TECHNIQUES IN THE MIDDLE/UPPER ATMOSPHERE AND IONOSPHERE (IAGA, ICMA)
Location: Site D

- 1400-201 GAI.03/02P/D-001 Poster**
IMAGERY OF THE IONOSPHERE USING DENSE GPS NETWORKS
Vesna DUCIC, Juliette ARTRU, Philippe LOGNONNE, Makoto MURAKAMI, Frederique PONCHAULT
- 1400-202 GAI.03/02P/D-002 Poster**
COMPARISON OF RAYLEIGH LIDAR AND GPS RADIO OCCULTATION STRATOSPHERIC TEMPERATURE PROFILES
Grace S. PENG, James H. HECHT, John E. WESSEL, Robert W. FARLEY, Jens WICKERT
- 1400-203 GAI.03/02P/D-003 Poster**
GLOBAL-SCALE IONOSPHERIC IMAGING WITH GPS OCCULTATION AND SAC-C MISSION
Victor Hugo RIOS, Farzad KAMALABADI, Behzad SHARIF
- 1400-204 GAI.03/02P/D-004 Poster**
ION DENSITY VARIATIONS AND REMOTE SENSING OF X-LINE MOTION IN THE TAIL
Hisato SHIRAI, Taku TAKADA, Toshifumi MUKAI
- 1400-205 GAI.03/02P/D-005 Poster**
THE VALIDATION OF PROFILES OF MINOR SPECIES DERIVED FROM THE KIRUNA FTIR SPECTRA USING SFIT2 BY COMPARISON WITH ILAS PROFILES
Mitsumu K. EJIRI, Hideaki NAKAJIMA, Nicholas B. JONES, Arndt MEIER, Thomas BLUMENSTOCK

- 1400-206 GAI.03/02P/D-006 Poster**
IONOSPHERIC-IRREGULARITY OBSERVATION WITH THE INTEGRATION OF HF DOPPLER AND DIRECTION FINDING TECHNIQUES
Ichiro TOMIZAWA, Takashi MARUYAMA, Takashi F. SHIBATA, Osamu DOHI, Akihiro KUROGI
- 1400-207 GAI.03/02P/D-007 Poster**
TIDAL VARIABILITY OBSERVED BY METEOR RADAR AT CACHOEIRA PAULISTA, BRAZIL
Paulo Prado BATISTA, Lourivaldo Mota LIMA, Hisao TAKAHASHI, Barclay Robert CLEMESHA
- 1400-208 GAI.03/02P/D-008 Poster**
MODERN APPROACH FOR THE ORGANIZATION OF RADIO METEOR OBSERVATIONS BY METEOR RADAR IN KAZAN (56N, 49E)
Antonina Nickolaevna FAHRUTDINOVA, Dmitry Victorovich KOROTYSHKIN
- 1400-209 GAI.03/02P/D-009 Poster**
COMPARISON OF WIND AND TEMPERATURE ESTIMATES MADE USING THE BUCKLAND PARKALL-SKY INTERFEROMETRIC METEOR RADAR AND COLOCATED INSTRUMENTS
David A. HOLDSWORTH, Iain M. REID, Jonathan M. WOITHE, James H. HECHT, Gulamabas G.SIVJEE
- 1400-210 GAI.03/02P/D-010 Poster**
LONG-RANGE REMOTE SENSING OF THE UPPER ATMOSPHERE: A NEW THEORETICAL MODEL
Robert J. MCCORMICK, Craig J. RODGER, Neil R. THOMSON

GAI.03 Wednesday, July 2 PM

HOW, WHEN, WHERE, AND WHY DO MAGNETIC RECONNECTION OCCUR?
Location: Site A, Room 12

Presiding Chair: M. Pinnock

- 1400 GAI.03/02P/A12-001**
ANTI-PARALLEL VERSUS COMPONENT MERGING: INVESTIGATIONS USING SATELLITE OBSERVATIONS AND ANALYTIC MODELING OF THE MAGNETOSHEATH
Steven M. PETRINEC, Stephen A. FUSELIER
- 1425 GAI.03/02P/A12-002**
DISTINGUISHING ANTIPARALLEL FROM COMPONENT MERGING WITH RADAR OBSERVATIONS
Iain J. COLEMAN, Gareth CHISHAM, Mike PINNOCK, Mervyn P. FREEMAN
- 1450 GAI.03/02P/A12-003**
ANTI-PARALLEL MERGING VS. COMPONENT RECONNECTION: ROLE INMAGNETOSPHERIC DYNAMICS
Masha M. KUZNETSOVA, Michael HESSE, Lutz RASTAETTER, Joachim BIRN, Darren DE ZEEUW, Tamas GOMBOSI
- 1510 GAI.03/02P/A12-004**
THE CONFIGURATION OF THE MAGNETOSPHERE AS A FUNCTION OF DIPOLE TILTAND IMF ORIENTATION
Tatsuki OGINO, Kyung Sun PARK, Keiichiro FUKAZAWA, Raymond J WALKER
- 1530 GAI.03/02P/A12-005**
THE INFLUENCE OF THE INTERPLANETARY MAGNETIC FIELD BY COMPONENT ON THE LOCATION AND RATE OF DAYSIDE RECONNECTION
Mike PINNOCK, Gareth CHISHAM, Iain J. COLEMAN, Mervyn P. FREEMAN
- 1550 BREAK**
- 1610 GAI.03/02P/A12-006**
THE INFLUENCE OF THE IMF ORIENTATION ON HIGH-LATITUDE RECONNECTION
Zdenek NEMECEK, Jana SAFRANKOVA, Lubomir PRECH
- 1630 GAI.03/02P/A12-007**
MEASURING THE RECONNECTION RATE IN THE DAYSIDE IONOSPHERE DURING AN INTERVAL OF DUE NORTHWARD IMF
Gareth CHISHAM, Mervyn P. FREEMAN, Mike PINNOCK, Iain J. COLEMAN
- 1650 GAI.03/02P/A12-008**
A CLUE TO UNDERSTAND THE CAUSE OF THE SEASONAL VARIATION OF INTENCE GEOMAGNETIC STORMS
Akio YOSHIDA, Takeshi TOYA, Makiko YOSHIDA
- 1710 GAI.03/02P/A12-009**
TOPOLOGY, SYMMETRY-BREAKING, AND DISSIPATIVE STRUCTURES OF MAGNETOSPHERE WITH SOUTHWARD IMF IN A 3D PARTICLE SIMULATION
Dongsheng CAI
- 1730 GAI.03/02P/A12-010**
MANIFESTATION OF RECONNECTION BETWEEN INTERPLANETARY AND TERRESTRIAL MAGNETIC FIELDS IN THE UT VARIATIONS OF PLANETARY GEOMAGNETIC ACTIVITY
Tamara V. KUZNETSOVA, Alexey Ivanovich LAPTUKHOV

GAIV.01 Wednesday, July 2 PM

THE DYNAMIC SUN, ITS ATMOSPHERE AND WIND

Location: Site A, Room 6

Presiding Chair: M. Kojima

1400 GAIV.01/02P/A06-001

ON THE OCCURRENCE RATE OF SLOW SPEED SOLAR WIND STREAMS
Virendra Kumar VERMA

1420 GAIV.01/02P/A06-002

NORTH-SOUTH ASYMMETRY IN THE HELIOSPHERIC CURRENT SHEET
Kalevi MURSULA, Teemu HILTULA

1440 GAIV.01/02P/A06-003

FAST SOLAR WIND AFTER THE RAPID ACCELERATION
Masayoshi KOJIMA, Munetoshi TOKUMARU, Ken-ichi FUJIKI, Tomoaki OHMI, Keiji HAYASHI, Masahiro YAMASHITA

1500 GAIV.01/02P/A06-004

THE LARGE-SCALE STRUCTURE OF THE SOLAR WIND NEAR SOLAR MAXIMUM: RESULTS FROM TWO-SITE INTERPLANETARY SCINTILLATION OBSERVATIONS
Andy BREEN, Alison CANALS, Mario BISI, Richard JONES, Richard FALLOWS, Gareth LAWRENCE

1515 GAIV.01/02P/A06-005

VARIATION OF SOLAR WIND MICROSTRUCTURE WITH HELIOCENTRIC DISTANCE AND SOLAR WIND SPEED
Richard FALLOWS, Andy BREEN, Phil WILLIAMS, Richard JONES, Mario BISI, Alison CANALS

1530 BREAK

1600 GAIV.01/02P/A06-006 Invited

SOLAR WIND AND EUV FLUX DURING THE PASTSOLAR CYCLE: RESULTS FROM SWAN
Rosine R. LALLEMENT, Eric QUEMERAIS, Jean-Loup BERTAUX, Teemu MAKINEN, Erkki KYROLA, Walter SCHMIDT, Stephane FERRON

1630 GAIV.01/02P/A06-007

ON THE SCALING OF SOLAR WIND FLUCTUATIONS AT HIGH AND LOW HELIOGRAPHIC LATITUDES
Roberto BRUNO, Raffaella D'AMICIS, Vincenzo CARBONE, Luca SORRISO-VALVO, Bruno BAVASSANO

1650 GAIV.01/02P/A06-008

MULTI-POINT MEASUREMENTS OF SOLAR WIND WAVES AND TURBULENCE
Timothy HORBURY, Elizabeth LUCEK, Andre BALOGH, Iannis DANDOURAS

GAIV.01-Posters Wednesday, July 2 PM

THE DYNAMIC SUN, ITS ATMOSPHERE AND WIND

Location: Site D

1400-211 GAIV.01/02P/D-001 Poster

PHOTOSPHERIC SOURCES AND BRIGHTENING OF THE NETWORK AND INTERNETWORK CHROMOSPHERE
Ana Cristina CADAVID, John LAWRENCE, Thomas BERGER, Alexander RUZMAIKIN

1400-212 GAIV.01/02P/D-002 Poster

MACROSTRUCTURE AND DYNAMICS OF ACTIVE REGIONS AND CORONAE OF THE SUN 2. MODEL
Takao SAITO, Syun-Ichi AKASOFU, Hiroshi WATANABE

1400-213 GAIV.01/02P/D-003 Poster

SOLAR CYCLES
Virginia Mabel SILBERGLEIT, Patricia Alejandra LARocca

1400-214 GAIV.01/02P/D-004 Poster

THE NOAA SOLAR X-RAY IMAGER - INITIAL RESULTS
Christopher C. BALCH, Steven HILL, Vic PIZZO, Doug BIESECKER

1400-215 GAIV.01/02P/D-005 Poster

WIND IN SITU THERMAL NOISE MEASUREMENTS OF THE SOLAR WINDELECTRON DENSITY AND TEMPERATURE OVER THE CURRENT SOLAR CYCLE 23
Sang HOANG, Karine ISSAUTIER, Milan MAKSIMOVIC, Claude PERCHE

1400-216 GAIV.01/02P/D-006 Poster

A CORRELATION STUDY OF THE SOLAR WIND OBSERVED AT TWO POINTS IN INTERPLANETARY SPACE DURING THE RECENT SOLAR MAXIMUM
Wataru MIYAKE, Yoshifumi SAITO, Hajime HAYAKAWA, Ayako MATSUOKA

1400-217 GAIV.01/02P/D-007 Poster

THE RELATION BETWEEN THE DECELERATION OF ICME AND CONDITIONS OF THE AMBIENT SOLAR WIND
Masahiro YAMASHITA, Munetoshi TOKUMARU, Masayoshi KOJIMA, Ken-ichi FUJIKI, Tomoaki OHMI

1400-218 GAIV.01/02P/D-008 Poster

ANALYSIS OF INTERPLANETARY MAGNETIC FLUXROPS WITH LARGE ANGLE ROTATION OF MAGNETIC FIELD
Katsuhide MARUBASHI

GAV.02 Wednesday, July 2 PM

GEOMAGNETIC INDICES: REAL-TIME PRODUCTION AND FORECASTING

Location: Site A, Room 11

Presiding Chairs: C.C. Balch, N. Nagarajan

1400 GAV.02/02P/A11-001

PROBABILISTIC FORECASTS OF THE 3-HOUR AP INDEX
Robert L. MCPHERRON, George SISCOE, Nancy U. CROOKER, Nick ARGE

1420 GAV.02/02P/A11-002

NEAR REAL TIME ACQUISITION OF GEOMAGNETIC DATA FROM NORTHERN NEAR-POLE REGION FOR SPACE WEATHER NOWCASTING AND FORECASTING
Tsutomu NAGATSUMA, Kanji HAYASHI, Takahiro OBARA

1435 GAV.02/02P/A11-003

A CUMULANT-BASED ANALYSIS OF GEOMAGNETIC INDICES
Jay R. JOHNSON, Simon WING, Irena TUZLA JOHNSON

1450 GAV.02/02P/A11-004

ISSUES SURROUNDING FORECASTING OF GEOMAGNETIC INDICES
Harjit S. AHLUWALIA

1505 GAV.02/02P/A11-005

A PRACTICAL APPROACH TO PREDICTION OF GEOMAGNETIC SERIES
Vladimir G. KOSSOBOKOV, Jean-Louis LE MOUËL, Eric BELLANGER

1520 GAV.02/02P/A11-006

REAL TIME FORECASTING OF GEOMAGNETIC INDICES
Peter WINTOFT

1535 GAV.02/02P/A11-007

DYNAMIC MODELING TECHNIQUES FOR THE FORECAST OF SOLAR WIND DRIVEN REAL-TIME GEOMAGNETIC INDICES
Mikhail Nikolaevich ZHIZHIN, Eric KIHN

1550 BREAK

1605 GAV.02/02P/A11-008

ACCURACY OF SHORT-TERM FORECASTS OF SOLAR AND GEOMAGNETIC ACTIVITY
Alan W.P. THOMSON, Ellen CLARKE

1620 GAV.02/02P/A11-009

AN INDEX FOR P12 PULSATIONS
Hing-Lan LAM

1635 GAV.02/02P/A11-010

CLOSE TO REAL-TIME GEOMAGNETIC INDICES DERIVATION AND DISSEMINATION
Michel MENVIELLE

1655 GAV.02/02P/A11-011

RING CURRENT DYNAMICS AND LOCAL TIME BEHAVIOUR ESTIMATED FROM LOW-ALTITUDE PROTON OBSERVATIONS.
Finn SØRAAS

1715 GAV.02/02P/A11-012

THE K BASED GEOMAGNETIC INDICES KP, AP AND CP - DERIVATION AND AVAILABILITY
Hans-Joachim LINTHE

1730 GAV.02/02P/A11-013

DERIVATION OF QUICK-LOOK AE INDEX AND QUICK-LOOK DST INDEX
Toyohisa KAMEI, Masahisa SUGIURA, Manabu KUNITAKE, Tsutomu NATATSUMA

1745 GAV.02/02P/A11-014

REFINING THE AURORAL ELECTROJET INDEX AL
Jesper Wittendorff GJERLOEV, Robert A. HOFFMAN, Masahisa SUGIURA, Toyohisa KAMEI

GADC.01-Posters Wednesday, July 2 PM

LOW LATITUDE AND EQUATORIAL ELECTROJET STUDIES FROM GROUND AND SATELLITE MAGNETIC DATA

Location: Site D

Convener: B.R. Arora

1400-219 GADC.01/02P/D-001 Poster

EQUATORIAL ELECTROJET STRENGTH IN THE AFRICAN SECTOR DURING HIGH AND LOW SOLAR ACTIVITY YEARS.
Tigistu Haile ERITRO

- 1400-220 GADC.01/02P/D-002 Poster**
VARIATION OF IONOSPHERIC SQ CURRENT SYSTEM WITH LONGITUDE USING PRINCIPAL COMPONENT ANALYSIS
Sandeep Kumar BHARDWAJ
- 1400-221 GADC.01/02P/D-003 Poster**
SEASONAL ASYMETRY OF THE IONOSPHERIC DYNAMO PROCESS BETWEEN SOUTHERN AND NORTHERN HEMISPHERE AS OBSERVED BY THE OERSTED SATELLITE
Satoru YAMASHITA, Toshihiko IYEMORI
- 1400-222 GADC.01/02P/D-004 Poster**
GEOPHYSICS INTEGRATED STUDIES: SUN-EARTH SYSTEMS: A COOPERATIVE PROJECT VIETNAM-EUROPE-AFRICA
Minh Huy LE, Christine Amory MAZAUDIER, Chau Ha DUYEN
- 1400-223 GADC.01/02P/D-005 Poster**
CHANGES IN FORM OF QUIET DAY GEOMAGNETIC VARIATIONS
Robert John STENING, Tamara REZTSOVA
- 1400-224 GADC.01/02P/D-006 Poster**
ROCKET MEASUREMENT OF ELECTRON DENSITY AND ELECTRON TEMPERATURE VARIATIONS IN THE EQUATORIAL IONOSPHERE OVER BRAZIL IN THE LAST TWO DECADES
Polinaya MURALIKRISHNA, Mangalathayil Ali ABDU



MI02 Wednesday, July 2 PM

CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)

Location: Site B, Room 17

- 1400 MI02/02P/B17-001 Invited**
THE GLOBAL AEROSOL SYSTEM AND ITS DIRECT FORCING OF CLIMATE - RESULTS FROM MODIS, AERONET AND GOCART
Yoram J. KAUFMAN, Lorraine REMER, Main CHIN, Brent HOLBEN, Didier TANRE
- 1430 MI02/02P/B17-002**
SPECTRAL MEASUREMENTS OF AEROSOL ABSORPTION AND DIRECT RADIATIVE FORCING USING IN-SITU AND REMOTE SENSING
J. Vanderlei MARTINS, Yoram KAUFMAN, Paulo ARTAXO
- 1445 MI02/02P/B17-003**
THE ARCTIC STUDY OF TROPOSPHERIC AEROSOL AND RADIATION (ASTAR 2000) - RESULTS OF AIRBORNE AND GROUND-BASED OBSERVATIONS - Takashi YAMANOCHI, Andreas HERBER, Renate TREFFENSEN, Masataka SHIOBARA
- 1500 MI02/02P/B17-004**
MIRAI CRUISE WITH SYNERGY USE OF CLOUD RADAR AND LIDAR FOR STUDIES OF CLOUDS AND AEROSOLS
Hajime OKAMOTO, Tomoaki NISHIZAWA, Shinichiro SATO, Akihide KAMEI, Hiroshi KUMAGAI, Hiroshi KUROIWA, Nobuo SUGIMOTO, Ichiro MATSUI, Atsushi SHIMIZU, Teruyuki NAKAJIMA
- 1515 MI02/02P/B17-005**
DIRECT RADIATIVE FORCING DUE TO AEROSOLS IN ULTRAVIOLET, VISIBLE AND INFRARED SPECTRAL REGIONS
Varada V. VAUDYA, Devara China Sattilingam PANUGANTI
- 1530 MI02/02P/B17-006**
EVALUATION OF THE DIRECT AND INDIRECT RADIATIVE FORCINGS OF AEROSOLS IN THE EAST CHINA SEA REGION
Teruyuki NAKAJIMA, Miho SEKIGUCHI, Toshihiko TAKEMURA, Itsushi UNO, Akiko HIGURASHI, Dohyeong KIM, Byung Ju SOHN, Sung-Nam OH, Takashi Y. NAKAJIMA, Sachio OHTA, Itaru OKADA

MI02b-Posters Wednesday, July 2 PM

CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)

Location: Site D

- 1400-225 MI02b/02P/D-001 Poster**
SUBMICRON PARTICLES AND THE BLACK CARBON COMPONENT IN THE URBAN ATMOSPHERE
Gengchen WANG, Kong QINXIN, Emilenko A. S., Gu ZHIFANG, Wan XIAOWEI
- 1400-226 MI02b/02P/D-002 Poster**
OPTICAL AND CHEMICAL PROPERTIES OF AEROSOLS IN THE MARINE BOUNDARY LAYER FROM SHIPBOARD MEASUREMENTS AROUND JAPAN
Masataka SHIOBARA, Keiichi HARA, Masanori YABUKI, Hiroshi KOBAYASHI, Gen HASHIDA

- 1400-227 MI02b/02P/D-003 Poster**
PARAMETERIZATION OF THE EFFECT OF CLOUD CONDENSATION NUCLEI ON OPTICAL PROPERTIES OF A NON-PRECIIPITATING LAYER CLOUD
Naomi KUBA, Hironobu IWABUCHI, Yasushi FUJIYOSHI
- 1400-228 MI02b/02P/D-004 Poster**
NATURAL FIRE EXPERIMENT IN CENTRAL RUSSIA: THE INFLUENCE ON OPTICAL PROPERTIES OF ATMOSPHERE, UV-B, UV-A, VISIBLE, SHORTWAVE SOLAR IRRADIANCE AND RADIATIVE FORCING
Nataly Ye. CHUBAROVA, Yelena I. NEZVAL', Nataly N. ULIUMDZHIEVA, Alexei N. RUBLEV, Tatiana A. TARASOVA
- 1400-229 MI02b/02P/D-005 Poster**
PHYSICALLY-BASED BULK PARAMETERIZATION FOR AEROSOLS
I-Chun TSAI
- 1400-230 MI02b/02P/D-006 Poster**
MEASUREMENT OF AEROSOL NUMBER CONCENTRATION IN ANTARCTICA USING SMALL AIRCRAFTS
Makoto WADA, Satoshi IHARA, Haruya SHIBA, Naohiko HIRASAWA
- 1400-231 MI02b/02P/D-007 Poster**
ASIAN AEROSOL OPTICAL CHARACTERISTICS FROM THE SKYNET PROJECT
Kazuma AOKI, Teruyuki NAKAJIMA, Tamio TAKAMURA, Tatsuo ENDOH
- 1400-232 MI02b/02P/D-008 Poster**
WINTERTIME/SUMMERTIME CONTRASTS OF CLOUD CONDENSATION NUCLEI AND CLOUD MICROPHYSICS OVER THE SOUTHERN OCEAN
Seong S. YUM, James G. HUDSON, Keun-Yong SONG
- 1400-233 MI02b/02P/D-009 Poster**
MODIFICATION OF SEA-SALT PARTICLES IN THE REMOTE MARINE ATMOSPHERE IN THE WESTERN PACIFIC OCEAN
Hiroaki NAOE
- 1400-234 MI02b/02P/D-010 Poster**
AEROSOL PROPERTIES OVER JAPAN BASED ON SUN/SKY RADIOMETRIC MEASUREMENTS DURING APEX AND ACE-ASIA
Itaru SANO, Sonoyo MUKAI, Yasuhiko OKADA, Maki YAMANO, Brent N. HOLBEN
- 1400-235 MI02b/02P/D-011 Poster**
CHEMICAL COMPOSITION OF SUBMICRON AEROSOL COLLECTED AT GOSAN, KOREA DURING ACE-ASIA
Jiyoung KIM, Patricia K. QUINN, Sung-Nam OH, Byoung-Cheol CHOI
- 1400-236 MI02b/02P/D-012 Poster**
CHARACTERISTICS OF AEOLIAN DUST OBSERVED BY SKY-RADIOMETER
Akihiro UCHIYAMA, Akihiro YAMAZAKI, Hiroki TOGAWA, Jun'ichi ASANO
- 1400-237 MI02b/02P/D-013 Poster**
RADIATIVE EFFECTS OF DIFFERENT AEROSOL TYPES OVER THE MEDITERRANEAN SEA
Alcide G. DI SARRA, Tatiana DI IORIO, Daniela MELONI, Wolfgang JUNKERMANN, Marco CACCIANI, Paolo CHAMARD, John J. DELUISI, Giorgio FIOCCO
- 1400-238 MI02b/02P/D-014 Poster**
FIELD MEASUREMENTS OF ATMOSPHERIC AEROSOLS AND TRACE GASES AT AMAMI-OSHIMA IN APEX-E2
Haruo TSURUTA, Shigeto SUDO, Seiichi YONEMURA, Takahisa MAEDA, Naoki KANEYASU, Yuichiro SHIRASUNA, Koichiro HIRANO, Koichiro SERA, Shoji FUTATSUGAWA, Ryoichi IMASU
- 1400-239 MI02b/02P/D-015 Poster**
PARTICLE SIZE DISTRIBUTION OF THE WATER-INSOLUBLE AEROSOL SUCH AS ASIAN DUST
Hiroshi KOBAYASHI, Masataka SHIOBARA, Keiichi HARA, Masanori YABUKI, Kimio ARAO
- 1400-240 MI02b/02P/D-016 Poster**
THE CHEMICAL AND PHYSICAL CHARACTERISTICS OF AEROSOLS OVER NAGOYA, JAPAN - ANNUAL CHANGE AND DUST EVENT -
Kenji KAI, Yusuke MIZUNO, Takashi FUJITA, Boyu XU, Yutaka KANAI
- 1400-241 MI02b/02P/D-017 Poster**
OPTICAL PROPERTIES OF AEROSOLS IN THE MARINE BOUNDARY LAYER DURING THE JARE42 SHIRASE CRUISE IN 2000
Masanori YABUKI, Masataka SHIOBARA, Hiroshi KOBAYASHI, Masahiko HAYASHI, Keiichi HARA, Kazuo OSADA, Hiroaki KUZE, Nobuo TAKEUCHI
- 1400-242 MI02b/02P/D-018 Poster**
INFLUENCE OF HUMIDITY ON THE AEROSOL SCATTERING COEFFICIENT IN PARIS AREA
Hariliva RANDRIAMIASOA, Patrick CHAZETTE,
- 1400-243 MI02b/02P/D-019 Poster**
AEROSOL OPTICAL THICKNESS DISTRIBUTION RETRIEVED FROM LANDSAT-7/ETM+ DATA USING BAND CORRELATION METHOD
Yoshiyuki KAWATA, Haruki FUKUI

1400-244	MI02b/02P/D-020	Poster
REMOTE SENSING OF DIRECT SHORT-WAVE AEROSOL RADIATIVE FORCING Maheskumar RAJAMMA SUKUMARAN, P.C.S. DEVARA		
1400-245	MI02b/02P/D-021	Poster
THE CORRELATION BETWEEN ATMOSPHERIC HYDROLOGIC SUBSTANCES ON A GLOBAL SCALE Sonoyo MUKAI, Itaru SANO, Masayoshi YASUMOTO, Yoshikatsu NISHIKAWA		
1400-246	MI02b/02P/D-022	Poster
SOLAR ACTINIC FLUX AND PHOTOLYSIS FREQUENCY MEASUREMENTS AT RISHIRI ISLAND: CLOUD EFFECTS AND DETECTION OF AN AEROSOL PLUME FROM RUSSIAN FOREST FIRES Yugo KANAYA, Yoshizumi KAJII, Hajime AKIMOTO		
1400-247	MI02b/02P/D-023	Poster
AEROSOL CHARACTERISTICS OVER THE EAST CHINA SEA FROM SATELLITE FOUR-CHANNEL RADIANCES Akiko HIGURASHI, Teruyuki NAKAJIMA, Sachio OHTA, Tamio TAKAMURA, Brent N. HOLBEN		
1400-248	MI02b/02P/D-024	Poster
CHARACTERISTIC AEROSOL PROPERTIES OF A TROPICAL URBAN REGION Govindan PANDITHURAI, Rachel T. PINKER, Devara P.C.S.		
1400-249	MI02b/02P/D-025	Poster
A STUDY OF THE CORRELATION BETWEEN AEROSOL AND CLOUD PARAMETERS USING SATELLITE DATASETS Miho SEKIGUCHI, Teruyuki NAKAJIMA, Kazuaki KAWAMOTO, Akiko HIGURASHI, Itaru SANO, Sonoyo MUKAI		
1400-250	MI02b/02P/D-026	Poster
AEROSOL RADIATIVE FORCING OVER EAST ASIA DETERMINED FROM GROUND-BASED MEASUREMENTS OF SUNPHOTOMETRY Dohyeong KIM, Byung-Ju SOHN, Teruyuki NAKAJIMA		
1400-251	MI02b/02P/D-027	Poster
MODIFICATION OF CLOUD MICROPHYSICAL PROPERTIES DUE TO AEROSOL FROM A STRONG BIOMASS BURNING EVENT Maria-Joao COSTA, Elsa CATTANI, Ana Maria SILVA, Vincenzo LEVIZZANI		
1400-252	MI02b/02P/D-028	Poster
STUDY THE NON-SPHERICAL EFFECT OF DUST AEROSOL PARTICLES ON THE AVHRR AEROSOL RETRIEVALS Xuepeng Tom ZHAO		
1400-253	MI02b/02P/D-029	Poster
OBSERVATIONAL RESULTS OF RADIATION VARIATIONS AT GROUND SURFACE DURING DUSTSTORM IN DUNHUANG, CHINA Mingyuan DU, Seiichiro YONEMURA, Zhibao SHEN, Yanbo SHEN, Wanfu WANG, Taichi MAKI		
1400-254	MI02b/02P/D-030	Poster
COMPARISONS OF CLOUD MICROPHYSICAL PROPERTIES RETRIEVED FROM DIFFERENT ALGORITHMS Elsa CATTANI, Maria-Joao COSTA, Vincenzo LEVIZZANI, Ana Maria SILVA		
1400-255	MI02b/02P/D-031	Poster
HIGH TEMPORAL RESOLUTION DIRECT RADIATIVE FORCING AT THE SURFACE FOR SMOKE AEROSOLS IN AMAZONIA Aline Sarmento PROCOPIO, L.A. REMER, P. ARTAXO, J.S. SCHAFER, Y.J. KAUFMAN, B.N. HOLBEN		
1400-256	MI02b/02P/D-032	Poster
AIRCRAFT VERTICAL MAPPING OF CLOUD STRUCTURE, CLOUD MICROPHYSICS, AEROSOL PROPERTIES, AND ITS EFFECTS ON PRECIPITATION J. Vanderlei MARTINS, Ilan KOREN, Paulo ARTAXO, Yoram KAUFMAN		
1400-257	MI02b/02P/D-033	Poster
NUMERICAL MODELING OF THE MICROPHYSICAL CHARACTERISTICS OF THE MARINE AND COASTAL AEROSOL Gennady A. KALOSHIN		
1400-258	MI02b/02P/D-034	Poster
DUST STORMS ASSOCIATED WITH COLD FRONT SYSTEMS OVER THE ARID REGIONS IN EAST ASIA Tetsuya TAKEMI, Naoko SEINO		
1400-259	MI02b/02P/D-035	Poster
A MODELING STUDY OF THE RELATIVE CONTRIBUTION OF THE DUST SOURCE AREAS Taichu Y. TANAKA, Kohtaro ORITO, Masaru CHIBA		
1400-260	MI02b/02P/D-036	Poster
IMPROVING GCM AEROSOL SIZES USING AERONET AND MODIS Glen LESINS, Ulrike LOHMANN		

1400-261	MI02b/02P/D-037	Poster
AEOLIAN DUST PREDICTION SYSTEM AT JAPAN METEOROLOGICAL AGENCY Takashi MAKI, Ayataka EBITA, Toru SASAKI, Taichu Y. TANAKA, Kohtaro ORITO, Masaru CHIBA		
1400-262	MI02b/02P/D-038	Poster
AEROSOLS AND CLOUDS IMPACT ON THE DIURNAL TEMPERATURE RANGE IN THE ATMOSPHERIC BOUNDARY LAYER Chein-Jung SHIU, Shaw Chen LIU, Jen-Ping CHEN		
1400-263	MI02b/02P/D-039	Poster
NUMERICAL INVESTIGATIONS AN IMPACT OF THE CLOUD-AEROSOL INTERACTION ON HEAVY PRECIPITATION EVENTS OVER UKRAINA Anne M. PIRNACH		
1400-264	MI02b/02P/D-040	Poster
CHARACTERISTICS OF RECENT DUST EVENTS IN EAST ASIA Yasunori KUROSAKI, Masao MIKAMI		
1400-265	MI02b/02P/D-041	Poster
SCHEME OF THE INTERACTION OF ATMOSPHERIC AEROSOLS AND CONVECTIVE CLOUDS Avtandil AMIRANASHVILI		
1400-266	MI02b/02P/D-042	Poster
A MULTISCALE AIR QUALITY MODELLING SYSTEM WITH CHEMICAL DATAASSIMILATION USING THE CANADIAN WEATHER FORECAST MODE, GEM Sergei A. SOLDATENKO, Jacek W. KAMINSKI, John C. MCCONNELL, Lori NEARY, Chao FU, Diane MICHELANGELI, R. MENARD, G. BRUNET, J. COTE, D. STEYN, Maqnet Team		
1400-267	MI02b/02P/D-043	Poster
A NUMERICAL STUDY OF THE VERTICAL TRANSPORT OF TRACERS BY CUMULUS CONVECTION Kazuaki YASUNAGA, Hideji KIDA, Takehiko SATOMURA, Noriyuki NISHI		
1400-268	MI02b/02P/D-044	Poster
MODEL ANALYZED ORIGINES OF ATMOSPHERIC SULFUR OXIDES OBSERVED IN AMAMI-OHSHIMA DURING APEX-E1/E2 CAMPAIGNS Takahisa MAEDA, Haruo TSURUTA, Seiichiro YONEMURA, Ryoichi IMASU		
1400-269	MI02b/02P/D-045	Poster
A SIMULATION OF THE AEROSOL-CLOUD INTERACTION PROCESS WITH USE OF A NON-HYDRODYNAMIC CLOUD MICROPHYSICS MODEL Takamichi IGUCHI, Teruyuki NAKAJIMA, Alexander KHAIN, Kazuo SAITO		
1400-270	MI02b/02P/D-046	Poster
A LONG-TERM SIMULATION OF THE ASIAN DUST EVENTS WITH USE OF A GENERAL CIRCULATION MODEL Makiko MUKAI, Teruyuki NAKAJIMA, Toshihiko TAKEMURA		
1400-271	MI02b/02P/D-047	Poster
A GCM NUMERICAL SIMULATION OF THE AEROSOL INDIRECT CLIMATE EFFECTS WITH DIFFERENT CLOUD MICROPHYSICS PARAMETERIZATIONS Hsuan-Chun HUANG, Teruyuki NAKAJIMA, Kentaroh SUZUKI, Toshihiko TAKEMURA		
1400-272	MI02b/02P/D-048	Poster
LOCAL CIRCULATION WITH AEOLIAN DUST ON SLOPES AND FOOTS OF THE TIANSHAN MOUNTAINS AND KUNLUN MOUNTAINS AROUND THE TAKLIMAKAN DESERT, CHINA Osamu ABE, Wenshou WEI, Masao MIKAMI, Kenji KOSUGI, Junrong XU, Takeshi SATO, Mingzhe LIU, Masujiro SHIMIZU		
1400-273	MI02b/02P/D-049	Poster
MODIFICATION OF CLOUD PROPERTIES BY PEAT FIRE AEROSOL IN INDONESIA 1997/1998: A MODEL STUDY Baerbel LANGMANN, Frank NOBER		

MC06
Wednesday, July 2 PM

MESOSCALE FLOW REGIMES AND BOUNDARY LAYER PROCESSES (ICDM)
Location: Site C, Room 26

Presiding Chairs: A. Crook, F. Fujibe

1400	MC06/02P/C26-001
A CASE STUDY OF THUNDERSTORM EVENT IN A TROPICAL COASTAL ATMOSPHERIC BOUNDARY LAYER P.K. KUNHIKRISHNAN, Radhika RAMACHANDRAN, Sudha RAVINDRAN, S.Muraleedharan NAIR, Praveena KRISHNAN, D.BALA SUBRAHAMANYAM	
1420	MC06/02P/C26-002
RADAR OBSERVATIONS OF TROPICAL PRECIPITATION SYSTEMS AT KOTOTABANG, WEST SUMATERA Yoshiaki SHIBAGAKI, Toshiaki KOZU, Toyoshi SHIMOMAI, Yasushi FUJIYOSHI, Hiroyuki HASHIGUCHI, Shoichiro FUKAO, Shuichi MORI, Manabu D. YAMANAKA	

1440	MC06/02P/C26-003	
SURFACE WIND FIELDS PRECEDING HEAVY RAINFALL IN THE TOKYO METROPOLITAN AREA IN THE AFTERNOON OF SUMMER Fujibe FUMIAKI, Hiromu SEKO, Yoshinori SHOJI		
1500	MC06/02P/C26-004	
TORNADOGENESIS Alexander Vladimirovich GAVRIKOV		
1520	MC06/02P/C26-005	
SEASONAL VARIATIONS OF INVERSION LAYERS OVER INDO-CHINA PENINSULA Masato I. NODZU, Shin-Ya OGINO, Manabu D. YAMANAKA, Yoshihiro TACHIBANA		
1540	BREAK	
1600	MC06/02P/C26-006	
FEATURES OF SEA BREEZE CIRCULATION OVER A TROPICAL STATION Babu C. A, Hamza VARIKODEN		
1620	MC06/02P/C26-007	
AIR POLLUTION AND THE SUBTROPICAL SEA BREEZE John W. NIELSEN-GAMMON		
1640	MC06/02P/C26-008	
ON THE COMPARISON OF NESTING OF LAGRANGIAN AIR-POLLUTION MODEL SMOG TO NWP MODEL ETA AND EULERIAN CTM CAMX TO NWP MODEL MM5: FIRST RESULTS Tomas HALENKA, Krystof EBEN, Josef BRECHLER, Jan BEDNAR, Pavel JURUS, Inka VYORALKOVA		
1700	MC06/02P/C26-009	
MESOSCALE MODELS AND OBSERVATIONS OFTEN DISAGREE: TENTATIVE EXPLANATION CONSIDERING SPECTRAL FORCINGS Guy H. SCHAYES, Stefano GALMARINI, Philippe THUNIS		

MC10 Wednesday, July 2 PM

PROSPECTS FOR AND PAST EXAMPLES OF UNEXPECTED NONLINEARITIES, THRESHOLDS, AND SURPRISES IN THE CLIMATE SYSTEM (ICCI)

Location: Site C, Room 30

Presiding Chairs: M. MacCracken, H. Kawano

1400	MC10/02P/C30-001	Invited
THERMOHALINE CIRCULATION AND CLIMATIC CHANGE Syukuro MANABE		
1430	MC10/02P/C30-002	Invited
PROCESSES GOVERNING THE STABILITY OF THE THE ATLANTIC THERMOHALINE CIRCULATION IN THE HADCM3 CLIMATE MODEL Michael VELLINGA, Richard A. WOOD, Jonathan M. GREGORY		
1500	MC10/02P/C30-003	Invited
EFFECTS OF STOPPING THEMEDITERRANEAN OUTFLOWON GLOBAL CLIMATE Wing-Le CHAN, Tatsuo MOTOI		
1530	MC10/02P/C30-004	
CRITICAL THRESHOLDS OF THE GLOBAL THERMOHALINE CIRCULATION Henk A. DIJKSTRA, Wilbert WEIJER		
1550	BREAK	
1620	MC10/02P/C30-005	Invited
MODE OF GLACIAL/INTERGLACIAL CYCLES AND THE ROLE OF ICE SHEET Ayako ABE-OUCHI, Tomonori SEGAWA, Fuyuki SAITO		
1650	MC10/02P/C30-006	
THE HIERARCHICAL STRUCTURE IN CLIMATE Shida LIU, Zuntao FU, Jiong CHEN, Shikuo LIU		
1710	MC10/02P/C30-007	Invited
MOUNT LOGAN ICE CORE EVIDENCE FOR SECULAR CHANGES IN THE REGIONAL HADLEY AND WALKER CIRCULATIONS IN THE PACIFIC Kent MOORE, Keith ALVERSON, Gerald HOLDSWORTH		



P01 Wednesday, July 2 PM

WESTERN BOUNDARY CURRENTS

Location: Site B, Room 18

Presiding Chairs: W.E. Johns, A.R. Piola

1400	P01/02P/B18-001	
WARM WATER PATHWAYS, TRANSPORTS AND TRANSFORMATION IN THE NORTHWESTERN NORTHATLANTIC AND THEIR MODIFICATION BY COLDAIR OUTBREAKS Yiyong LUO		
1420	P01/02P/B18-002	
FLUCTUATIONS IN THE POSITION OF THE PROTO GULF STREAM: EVIDENCE FROM HIGH-RESOLUTION STABLE ISOTOPE RESULTS Bridget Susan WADE, Dick KROON, Heiko PAELIKE		
1440	P01/02P/B18-003	
INTERANNUAL VARIATIONS IN UPPER OCEAN HEAT CONTENT AND HEAT TRANSPORT CONVERGENCE IN THE WESTERN NORTH ATLANTIC Shenfu DONG, Susan HAUTALA, Kathryn A. KELLY		
1500	P01/02P/B18-004	
MESOSCALE MODULATION OF CROSS SHELF EXCHANGE IN THE FLORIDA STRAITS Donald K. OLSON, Harry A. DEFERRARI, William E. JOHNS, Lynn K. SHAY, Thomas N. LEE		
1520	P01/02P/B18-005	
THE CONNECTION BETWEEN THE WARMWATERSPHERE CIRCULATION IN THE WESTERN TROPICAL ATLANTIC AND THE WESTERN BOUNDARY CURRENT Lothar STRAMMA, Monika RHEIN, Peter BRANDT, Claus BÖNING, Marcus DENGLE, Maren WALTER		

1540	BREAK	
1600	P01/02P/B18-006	Invited
THE FATE OF NADW IN THE SOUTH ATLANTIC Nelson George HOGG, Kevin G. SPEER		
1630	P01/02P/B18-007	Invited
THE MALVINAS CURRENT Christine PROVOST		

1700	P01/02P/B18-008	
THE ROLE OF NORTH BRAZIL CURRENT RINGS IN THE ATLANTICTHERMOHALINE CIRCULATION William E. JOHNS		

1720	P01/02P/B18-009	
SYNOPTIC STUDY OF WARM RINGS IN THE NORTH BRAZIL CURRENT RETROFLECTIONREGION USING SATELLITE ALTIMETRY DATA Gustavo Jorge GONI, William E. JOHNS, Silvia Lucia GARZOLI		

P02 Wednesday, July 2 PM

MARGINAL AND SEMI-ENCLOSED SEAS AND THEIR EXCHANGE WITH THE OPEN OCEAN

Location: Site C, Room 25

Presiding Chair: J. Johnson

1400	P02/02P/C25-001	
GENERATION OF INTERNAL TIDES AND SOLITARY WAVES Rodger HJ. GRIMSHAW		
1430	P02/02P/C25-002	
INTENSE INTERNAL WAVES AND SOLITONS ON SHELVES OF ENCLOSED AND SEMI-ENCLOSED SEAS Andrey Ninelovich SEREBRYANY		
1450	P02/02P/C25-003	
THE TIDAL EVOLUTION OF THE NW EUROPEAN SHELF SEAS FROM THE LAST GLACIAL MAXIMUM TO THE PRESENT DAY Katsuto UEHARA, James D. SCOURSE, Kevin J. HORSBURGH		
1510	P02/02P/C25-004	
APPLICATIONS OF THE GENERALIZED COORDINATE OCEAN MODEL FOR BETTER REPRESENTING SATELLITE DATA Tony SONG		
1530	P02/02P/C25-005	
INTERACTION BETWEEN THE OPEN OCEAN AND A MARGINAL SEA DUE TO LOW-FREQUENCY COASTAL KELVIN WAVE SCATTERING: THEORY AND APPLICATION Roxana C. WAJSOWICZ		

1550	BREAK	
1610	P02/02P/C25-006	Invited
A NEW OUTFLOW LENGTH SCALE? Doron NOF, Stephen VAN GORDER		
1640	P02/02P/C25-007	
NEW EQUATIONS FOR SHALLOW WATER DYNAMICS WITH ENTRAINMENT Tivon E. JACOBSON, Esteban G. TABAK		

1700 P02/02P/C25-008
EXCHANGES OF THE ARABIAN MARGINAL SEAS WITH THE INDIAN OCEAN
William E. JOHNS, Stephen P. MURRAY, Sarantis SOFIANOS, Donald B. OLSON,
Fengchao YAO

1720 P02/02P/C25-009
NUMERICAL MODELING OF THE TIDAL EXCHANGE THROUGH THE STRAIT
OF GIBRALTAR
Gianmaria SANNINO, Vincenzo ARTALE, Andrea BARGAGLI

1740 P02/02P/C25-010
CIRCULATION, BOUNDARY EXCHANGE AND VERTICAL MIXING IN THE
CLYDE SEA
John H. SIMPSON, Carol D. JANZEN, Mark E. INALL, Tom P. RIPPETH

P06 Wednesday, July 2 PM

THE SOUTHERN OCEAN (SCOR, SCAR)
Location: Site B, Room 19

Convenor: K. Heywood
Co-Conveners: E. Hofmann, Z. Dong
Presiding Chairs: E. Hofmann, K. Heywood

1400 P06/02P/B19-001
OCEANIC RESPONSE TO THE ANTARCTIC OSCILLATION
Shigeru AOKI

1440 P06/02P/B19-002
ATMOSPHERIC DIABATIC HEATING RESPONSE TO SST ANOMALIES IN THE
ANTARCTIC CIRCUMPOLAR WAVE
Shyh-Chin CHEN, Warren B. WHITE, Masao KANAMITSU

1500 P06/02P/B19-003
STRUCTURE AND EVOLUTION OF SIMULATED INTERANNUAL VARIABILITIES
IN THESOUTHERN OCEAN
Tatsuo MOTOI, Wing-Le CHAN, Hyungmoh YIH

1520 P06/02P/B19-004
EVIDENCE FOR THE ANTARCTIC CIRCUMPOLAR WAVE IN THE
SUBANTARCTIC DURING THE PAST 50 YEARS
Jean-Luc MELICE, Johann LUTJEHARMS, Mathieu ROUAULT, Hugues GOOSSE,
Thierry FICHEFET, Chris REASON

1540 BREAK

1600 P06/02P/B19-005
INTERACTIONS BETWEEN KRILL, CURRENTS, ICE AND WATER COLUMN
STRUCTURE - HOW DIFFICULT IS IT TO GET WHERE YOU WANT AND STAY
THERE?
Steve NICOL

1640 P06/02P/B19-006
VARIABILITY AND CHANGE IN THE SCOTIA SEA ECOSYSTEM: BIOLOGICAL
AND PHYSICAL INFLUENCES
Eugene J. MURPHY, Jonathan L. WATKINS, Philip N. TRATHAN, Sally THORPE,
Peter WARD, Keith REID, John P. CROXALL

1700 P06/02P/B19-007
VARIABILITY OF BOTTOM WATER CHARACTERISTICS AND EXPORT IN THE
NORTHWESTERN WEDDELL SEA
Hartmut H. HELLMER, Michael SCHROEDER, Michael P. SCHODLOK, Carlos A.
E. GARCIA

1720 P06/02P/B19-008
THE FATE OF THE ANTARCTIC SLOPE FRONT AND THE ORIGIN OF THE
WEDDELL FRONT
Karen J. HEYWOOD, Alberto C. NAVEIRA GARABATO, David P. STEVENS



SS01 Wednesday, July 2 PM

SEISMOLOGICAL OBSERVATION AND INTERPRETATION
Location: Site A, Room 9

Presiding Chairs: J. Schweitzer, I. Chernobay

1400 SS01/02P/A09-001
SHEAR-WAVE POLARIZATION ANOMALY CAUSED BY SUBDUCTING
SEAMOUNTS
Theodora VOLT, Yoshiyuki KANEDA, Sergei ZATSEPIN, Stuart CRAMPIN

1415 SS01/02P/A09-002
SHEAR-WAVE SPLITTING OBSERVATIONS AT AN ISOLATED SWARM OF
SMALL EARTHQUAKES IN ICELAND
Yuan GAO, Stuart CRAMPIN

1430 SS01/02P/A09-003
APPLICATION OF MOMENT TENSOR INVERSION TO SMALL EARTHQUAKES
IN NO-HIGH SEISMICITY ZONES: THE KOREAN AND INDOCHINESE
PENINSULA
Phan thi Kim VAN, So Gu KIM, Seoung Kyu LEE

1445 SS01/02P/A09-004
ESTIMATION OF AVERAGE PARAMETERS OF FAULTING IN CRUST
EARTHQUAKES
Nadezda Valentinovna KRAEVA

1500 SS01/02P/A09-005
SCALE-DEPENDENCE OF APPARENT STRESS FOR SMALL- AND
MODERATE- SIZED EARTHQUAKES IN THE NORTHEASTERN HONSHU,
JAPAN
Tsutomu TAKAHASHI, Haruo SATO, Masakazu OHTAKE, Kazushige OBARA

1515 SS01/02P/A09-006
ESTIMATION OF THE SOURCE TIME FUNCTION BASED ON BLIND
DECONVOLUTION WITH GAUSSIAN MIXTURES
Boi-Yee LIAO, Huey-Chu HUANG

1530 SS01/02P/A09-007
MULTIFRACTAL CHARACTERISTICS OF GENERAL STRESS RELEASE OF
EARTHQUAKES
Shijun CHEN, Harte DAVID, Li MA, Feng Li WANG

1545 SS01/02P/A09-008
SHEAR-WAVE SPLITTING STUDIES FROM YUNNAN LOCAL SEISMOGRAPH
NETWORK, SOUTHWEST CHINA
Yuan GAO, Xiang DING, Wei LIANG, Minjun CAI, Xiqiang LIU, Youjin SU

1600 BREAK

1630 SS01/02P/A09-009
PRELIMINARY STUDY OF GENETIC BP NETWORK AND ITS APPLICATION TO
DISCRIMINATING EARTHQUAKES AND EXPLOSIONS
Yinju BIAN

1645 SS01/02P/A09-010
YIELD ESTIMATION OF SEMIPALATINSK NUCLEAR EXPLOSIONS FROM SRO,
MASHHAD
Abdolrahim JAVAHERIAN

1700 SS01/02P/A09-011
BRAZILIAN SHALLOW SEISMIC EVENTS AS MONITORED BY IDC/IMS/CTBTO
VS. GROUND TRUTH
Vasile I. MARZA, Cristiano N. CHIMPLIGANOND, Lucas V. BARROS, Daniel F.
CAIXETA

1715 SS01/02P/A09-012
APPLICATION OF THE DOUBLE-DIFFERENCE EARTHQUAKE LOCATION
ALGORITHM TO THE EARTHQUAKES IN CENTRAL-WESTERN CHINA
Zhi-xian YANG, Felix WALDHAUSER, Yun-tai CHEN, Paul RICHARDS

1730 SS01/02P/A09-013
PROGRESS IN WIDE-AREA SEISMIC EVENT LOCATION ON THE REGIONAL
SCALE
Paul Granston RICHARDS, Felix WALDHAUSER, David SCHAFF, Vitaly I.
KHALTURIN, Won-Young KIM, Mark FISK, Valeriu BURLACU, Chandon SAIKIA,
Igor MOROZOV, Anastasia STROUJKOVA, Vernon CORMIER

1745 SS01/02P/A09-014
GLOBAL EARTHQUAKE RELOCATION USING DOUBLE-DIFFERENCES:
PERFORMANCE EVALUATION AND APPLICATION TO DEEP SUBDUCTION
ZONES
Felix WALDHAUSER

SS02 Wednesday, July 2 PM

SEISMIC SOURCES: MODELING AND PREDICTION
Location: Site A, Room 3

Presiding Chairs: R.S. Stein, K. Satake

1400 SS02/02P/A03-001
MEASURING THE MATCH BETWEEN OBSERVED AND SYNTHETIC STRONG
MOTION RECORDS
Frantisek GALLOVIC, Jiri ZAHRAĐNIK

1415 SS02/02P/A03-002
EVOLUTION OF SEISMICITY IN SOUTHERN CALIFORNIA: ANIMATIONS
BASED ON EARTHQUAKE STRESS TRANSFER INCORPORATING
RATE/STATE FRICTION
Ross S. STEIN, Shinji TODA, Keith RICHARDS-DINGER

1430 SS02/02P/A03-003
EFFECT ON SEISMICITY OF STRESS CHANGE OF THE 1999 MW=7.6 CHI-CHI,
TAIWAN, EARTHQUAKE AND ITS LARGE AFTERSHOCKS (M>6.0)
Chung-Han CHAN, Kuo-Fong MA, Ying-Tung YEN, Ross S. STEIN

WEEK
A
WED
PM

1445 SS02/02P/A03-004
PARADOX OF CO-SEISMIC FAR FIELD STRESS CHANGES OBSERVED IN CHINA
Yaolin SHI

1500 SS02/02P/A03-005
A METHOD FOR RECONSTRUCTION OF ELASTIC STRESSES FROM STRESS ORIENTATIONS IN LITHOSPHERE
Alexander N. GALYBIN, Shamil A. MUKHAMEDIEV

1515 SS02/02P/A03-006
SOME COMMON AND CONTRASTING FEATURES OF THE NORTH EAST INDIA AND HIMALAYAN EARTHQUAKES: WAVELET SPECTRA, RECURRENCE TIME SCALING, NONLINEAR MODELING AND PREDICTION
Rama krishna TIWARI, Sri Lakshmi SUNKARA

1530 SS02/02P/A03-007
ON THE INFLUENCE OF THE EARTH TIDES UPON SEISMICITY BEFORE STRONG EARTHQUAKES
Vadim A. SALTYSKOV, Vladimir V. IVANOV, Yulia A. KUGAENKO

1545 BREAK

1600 SS02/02P/A03-008
TIDAL TRIGGERING EFFECT ON EARTHQUAKE OCCURRENCE RELATED TO THE TECTONIC STRESS FIELD
Sachiko TANAKA, Masakazu OHTAKE, Haruo SATO

1615 SS02/02P/A03-009
B AND P VALUE SEISMICITY PARAMETERS: VARIATION AND RELATION TO PHYSICAL PROCESSES FOR EARTHQUAKES IN JAPAN
Bogdan D. ENESCU, Kiyoshi ITO

1630 SS02/02P/A03-010
DECAY AND DIFFUSION OF ENHANCED SEISMICITY AFTER INLAND LARGE SHALLOW EARTHQUAKE
Gen AOKI, Akio YOSHIDA

1645 SS02/02P/A03-011
SELF-ORGANIZED FRACTAL SEISMICITY AND B-VALUE OF AFTERSHOCKS OF 2001 BHUJ EARTHQUAKE IN KUTCH (INDIA)
Prantik MANDAL, Bal Krishna RASTOGI

1700 SS02/02P/A03-012
FRACTAL GEOMETRY ANALYSIS OF BHUJ EARTHQUAKE, 2001 AND TECTONICS OF THE REGION, GUJARAT, INDIA
Avadh RAM, Paresh Nath SINGHA ROY

1715 SS02/02P/A03-013
DETECTION OF STOPPING PHASES BY BOREHOLE OBSERVATIONS
Kazutoshi IMANISHI, Hosao ITO, Yasuto KUWAHARA, Yasuyuki KANO

1730 SS02/02P/A03-014
SEMI-CONTROLLED EARTHQUAKE-GENERATION EXPERIMENTS IN SOUTH AFRICAN DEEP GOLDMINES (2002 - 2006)
Hiroshi OGASAWARA, Yoshihisa IIO, The Research Group FOR SEESADGM*

1745 SS02/02P/A03-015
CHARACTERIZATION OF BRITTLE-PLASTIC TRANSITION ZONE AND EARTHQUAKE GENERATION
Koichiro FUJIMOTO, Norio SHIGEMATSU, Tomoyuki OHTANI, Tomoaki TOMITA, Yoji KOBAYASHI, Hidemi TANAKA



V08 Wednesday, July 2 PM

CALDERA FORMATION AND UNREST
Location: Site A, Room 2

Presiding Chairs: P. Lipman, T. U

1400 V08/02P/A02-001
LARGE-SCALE FAILURES ON DOMES AND STRATOCONES SITUATED ON CALDERA RING FAULTS: SAND BOX MODELING AND NATURAL EXAMPLES FROM KAMCHATKA, RUSSIA
Alexander B. BELOUSOV, Thomas R. WALTER, Valentin TROLL

1420 V08/02P/A02-002
DID A COLLAPSE CALDERA FORM DURING THE LATE MIOCENE PLINIAN ERUPTION OF THE RHYOLITIC RAMADAS VOLCANIC CENTRE, CENTRAL ANDEAN PUNA, NW ARGENTINA?
Mark A. TAIT, Ray A.F. CAS, Jose G. VIRAMONTE

1440 V08/02P/A02-003
CALDERAS (PATERAE) ON JUPITER'S MOON IO
Rosaly M.C. LOPES, William D. SMYTHE, Lucas W. KAMP, Robert W. CARLSON

1500 V08/02P/A02-004
BALDUR - A COLD CALDERA ON IO
William D. SMYTHE, Rosaly M. C. LOPES, Robert W. CARLSON, NIMS TEAM

1520 BREAK

1540 V08/02P/A02-005
SEQUENTIAL CALDERA-FORMING ERUPTIONS FROM MULTIPLE MAGMA CHAMBERS OF SHIKOTSU CALDERA, HOKKAIDO, JAPAN
Mitsuhiro NAKAGAWA, Jun-ichi KITAGAWA, Ryuta FURUKAWA

1600 V08/02P/A02-006
THE SPATIOTEMPORAL DEVELOPMENT OF AN IGNIMBRITE FLARE-UP: INSIGHTS INTO THE DEVELOPMENT OF LONG-LIVED SILICIC VOLCANIC FIELDS
Shanaka DE SILVA

1620 V08/02P/A02-007
CLOSING SEQUENCE OF A CALDERA-FORMING ERUPTION RECORDED IN BOREHOLE CORE SAMPLES FROM THE ASO CALDERA, JAPAN
Keiichi SAKAGUCHI, Hideo HOSHIZUMI

1640 V08/02P/A02-008
A MODEL FOR MAGMATISM FOLLOWING CALDERA COLLAPSE: EXAMPLES FROM OSSIPEE RING COMPLEX, NEW HAMPSHIRE, AND LAKE CITY CALDERA, COLORADO
Ben M. KENNEDY, John STIX, Yan LAVALLEE, Mathieu RICHER, Marc-Antoine LONGPRE

1700 V08/02P/A02-009
PALEOMAGNETISM DETECTS MAJOR VOLCANIC EVENT IN THE CENTRAL ANDES
Ruben SOMOSA, Juan Francisco VILAS

1720 V08/02P/A02-010
CAVIAHUE CALDERA - COPAHUE VOLCANO UNREST, SOUTHERN ANDES.
Elizabeth Ivonne ROVERE

Paper Numbers

Oral Presentation

0830 JSV03/30A/A01-001

- Sequence
- Room No.
- Site
- Time
- Date
- Session code
- Presentation time

Example: 0830 JSV03/30A/A01-001 = Presentation begins at 8:30, JSV03, June 30, presentation in the morning (AM), Site A, Room 1, first paper in that session

Poster Presentation

1600-001 JSA10/30P/D-001

- Sequence
- Site
- Time
- Date
- Session code
- Board No.
- Core time

Example: 1600-001 JSA10/30P/D-001 = Core time begins at 16:00, Poster Board No.: 001, JSA10, June 30, core time in the afternoon (PM), Site D, first paper in that session

Thursday, July 3 AM

U UNION

UNION LECTURE FOR U3 Thursday, July 3 AM

THE IMPACT OF HUMAN ACTIVITIES ON THE ATMOSPHERE

Location: Site D, Room 32

0800 UL3/03A/D32-001

THE IMPACT OF HUMAN ACTIVITIES ON THE ATMOSPHERE
Mario J. MOLINA

U3 Thursday, July 3 AM

EARTH SYSTEMS AND GLOBAL CHANGE

Location: Site D, Room 32

Conveners: P. Rizzoli, A. Sumi
Presiding Chair: P. Rizzoli

0900 U3/03A/D32-001

IMPORTANT CHANGES IN THE CRYOSPHERE DURING THE 20TH CENTURY
Atsumu OHMURA

0930 U3/03A/D32-002

ATMOSPHERIC CHEMICAL CHANGE, AIR POLLUTION, AND CLIMATE
Ronald George PRINN

1000 U3/03A/D32-003

MODELING HUMAN-CLIMATE INTERACTION
Henry D. JACOBY

1030 BREAK

1045 U3/03A/D32-004

BIOSPHERE MODELLING IN THE CONTEXT OF EARTH SYSTEM MODELLING
Iain Colin PRENTICE, Corinne LE QUERE

1115 U3/03A/D32-005

THE THERMOHALINE CIRCULATION IN PAST, PRESENT AND FUTURE
GLOBAL CLIMATE CHANGE
Andrew J. WEAVER

1145 U3/03A/D32-006

THE GLOBAL WATER CYCLE
Dara ENTEKHABI

Invited

IA INTER-ASSOCIATION

JSA06

Thursday, July 3 AM

SEISMO-, VOLCANO- AND TECTONO-ELECTROMAGNETIC EFFECTS (IAGA, IASPEI, IAVCEI)

Location: Site A, Room 9

Presiding Chairs: M. Johnston, Y. Sasai

TECTONOMAGNETISM

0900 JSA06/03A/A09-001

TECTONOMAGNETIC MONITORING OF REGIONAL CRUSTAL STRESS CHANGES AND PRE-EARTHQUAKE PROCESSES IN THE BAIKAL LAKE REGION (EASTERN SIBERIA)

Pyotr G. DJADKOV, O.A. MIKHEEV, O.A. SOBOLEV, M.M. MANDELBAUM, Yu.F. MOROZ, G.I. TATKOV, G.I. CHEBAKOV

0915 JSA06/03A/A09-002

ON ELECTRIC AND MAGNETIC FIELD VARIATIONS ASSOCIATED WITH THE 1999 IZMIT EARTHQUAKE, TURKEY

Yoshimori HONKURA, Naoto OSHIMAN, Masaki MATSUSHIMA, Mustafa K. TUNCER, Serif BARIS, Ahmet M. ISIKARA

0930 JSA06/03A/A09-003

PREDICTION OF SEISMIC GROUND MOTION BY ELECTRIC FIELDS

OCCURRING SIMULTANEOUSLY WITH THE EARTHQUAKE
Kozo TAKAHASHI, Yukio FUJINAWA, Takumi MATSUMOTO, Shigeo KINOSHITA

0945 JSA06/03A/A09-004

AN EXPERIMENT DESIGNED TO DETECT EM SIGNALS DUE TO THE SEISMIC DYNAMO EFFECT

Yoshimori HONKURA, Naoto UJIHARA, Hiroki TSUBOI, Yasuo OGAWA, Masaki MATSUSHIMA

1000 JSA06/03A/A09-005

IMPLICATIONS OF MULTI-PARAMETER GEOPHYSICAL MEASUREMENTS DURING FAULT FAILURE FOR ELECTROMAGNETIC OBSERVATIONS

Malcolm J. JOHNSTON

1015 JSA06/03A/A09-006

EARTH-ATMOSPHERIC COUPLING BEFORE THE 2001 BHUJ EARTHQUAKE (INDIA) BY ANALYZING MULTISENSOR SATELLITE IMAGERY

Dimitar P. OUZOUNOV, Ramesh P. SINGH, Friedemann FREUND

1030 JSA06/03A/A09-007

ELECTROMAGNETIC DEPTH SOUNDING IN SEISMOTECTONIC REGIONS

Ole HANEKOP, Fiona SIMPSON

1045 BREAK

1100 JSA06/03A/A09-008

REGIONAL MAGNETIC ANOMALY AS A NATURAL SENSOR FOR MONITORING OF THE RECENT TECTONIC ACTIVITY

Nikolai P. KOSTROV, Vsevolod A. SHAPIRO

1115 JSA06/03A/A09-009

GEOMAGNETIC MONITORING AND POSSIBLE RELATIONSHIP TO EARTHQUAKE PRECURSOR AND MAGNETIC STORM (CASE STUDY: GEOMAGNETIC DATA FROM TANGERANG GEOMAGNETIC OBSERVATORY)

Hendar Gunawan GUNAWAN

1130 JSA06/03A/A09-010

GEOMAGNETIC INVESTIGATIONS IN THE SEISMOACTIVE REGIONS OF INDIA

Shiwadas Yadaorao WAGHMARE, Praveen GAVALI

1145 JSA06/03A/A09-011

EXPERIMENTAL RESULTS OF TRANSMITTING HIGH-FREQUENCY ELECTRIC SIGNAL ALONG THE NOJIMA FAULT TO INVESTIGATE ASSOCIATION WITH SEISMO-EM EVENTS

Ichiro TOMIZAWA, Takashi FUKUMOTO, Naoto OSHIMAN

1200 JSA06/03A/A09-012

IMPROVED MODEL OF THE TECTONOMAGNETIC AND GEODETIC STRAIN ANOMALY OBSERVED AT PARKFIELD, CALIFORNIA, FROM 1993 TO THE PRESENT

Malcolm James JOHNSTON

1215 JSA06/03A/A09-013

THE REFLECTION OF THE GEODYNAMIC PROCESSES IN ANOMALOUS VARIATIONS OF THE GEOMAGNETIC FIELD.

Sabitjan Kh MAKSDUDOV, Kharbay Nasirbekovich ABDULLABEKOV

WEEK
A
THU
AM

1230 JSA06/03A/A09-014
 EXPERIENCE OF FORECASTING EARTHQUAKES IN UZBEKISTAN
 Kakharbay Nasyrbekovich ABDULLABEKOV

JSH03 Thursday, July 3 AM

QUANTITATIVE APPROACHES TO HYPORHEIC FLOWS AND THEIR BIOGEOCHEMICAL CONSEQUENCES IN MARINE, ESTUARINE AND FRESHWATER SYSTEMS (IAHS, ICWQ)

Location: Site A, Room 16

Convener: R. Davis

Co-Conveners: B. Burnett, P. Ford, S. Onodera

Presiding Chairs: J.R. Davis, B. Burnett

0900 JSH03/03A/A16-001

2. QUANTITATIVE APPROACHES TO HYPORHEIC FLOWS AND THEIR BIOGEOCHEMICAL CONSEQUENCES IN MARINE, ESTUARINE AND FRESHWATER SYSTEMS

Louise HEATHWAITE, Helen JARVIE, Colin NEAL

0920 JSH03/03A/A16-002

ON THE ROLE OF THE HYPORHEIC ZONE IN CATCHMENT-SCALE SOLUTE TRANSPORT THROUGH STREAMS

Georg A. LINDGREN, Georgia DESTOUNI

0940 JSH03/03A/A16-003

STREAM, HYPORHEIC, AND HILLSLOPE FLOW INTERACTIONS ALONG A HEADWATER CHANNEL

Takashi GOMI, R. Dan MOORE

1000 JSH03/03A/A16-004

INTERACTION BETWEEN RIVER WATER AND GROUNDWATER IN THE PANTANAL WETLAND, BRAZIL

Kunihide MIYAOKA, Hiroshi MATSUYAMA, Jun SHIMADA

1020 BREAK

1110 JSH03/03A/A16-005

NITRATE TRANSPORT IN HYPORHEIC ZONE OF A RIVER IN A SEASIDE AREA, WESTERN JAPAN

Shin-ichi ONODERA, Tsutomu TAKEI, Mitsuyo SAITO, Naoyuki NISHIMUNE

1130 JSH03/03A/A16-006

WATER DIVERSION AND ITS ENVIRONMENTAL IMPACTS IN THE LOWER REACHES OF THE YELLOW RIVER

Jianyao CHEN, Changyuan TANG, Yoshihiro FUKUSHIMA

1150 JSH03/03A/A16-007

STUDY ON DENITRATION PROCESS IN A WETLAND

Hirofumi IWAMI, Changyuan TANG, Baku OHJI

1210 JSH03/03A/A16-008

NITROGEN CYCLING IN A SUBTERRANEAN ESTUARY

Kevin Daniel KROEGER, Matthew A. CHARETTE, Jeremy M. TESTA, Matt C. ALLEN, Adam RAGO, Craig W. HERBOLD, Edward R. SHOLKOVITZ

JSM02 Thursday, July 3 AM

THE SURFACE OCEAN-LOWER ATMOSPHERE STUDY (IAMAS [ICACGP, ICPM], IAPSO)

Location: Site B, Room 22

Conveners: M. Uematsu, P.S. Liss, R.A. Duce, D. Smythe-Wright

Presiding Chairs: D. Smythe-Wright, M. Uematsu

1000 JSM02/03A/B22-001

IRON FERTILIZATION EXPERIMENT IN THE WESTERN SUBARCTIC PACIFIC (SEEDS)

Atsushi TSUDA, Tsuneo ONO, Hiroaki SAITO, Koji SUZUKI, Jun NISHIOKA, Yukihiko NOJIRI, Isao KUDO, Shigenobu TAKEDA

1040 JSM02/03A/B22-002

A NEW APPROACH, IRON FERTILIZATION THROUGH CLOUD SEEDING

Cemal Ahmet SAYDAM, Hamide Zorlu SENYUVA

1100 JSM02/03A/B22-003

THE EXCHANGE OF VOLATILE TRACE ELEMENTS BETWEEN THE SURFACE OCEAN AND LOWER ATMOSPHERE

Thomas M. CHURCH, David AMOUROUX, Olivier DONARD

1120 JSM02/03A/B22-004

IRON COMPLEXATION OF SAHARAN DUST IN SURFACE WATERS OF THE EQUATORIAL ATLANTIC: CONTROLS ON SOLUBILITY AND BIOAVAILABILITY

Peter L. CROOT, Peter STREU, Alex BAKER

1140 JSM02/03A/B22-005

DISSOLVED ALUMINUM AND IRON IN THE CENTRAL AND WESTERN N. PACIFIC: RESULTS FROM THE 2002 IOC CRUISE

Matthew T. BROWN

1200 JSM02/03A/B22-006

²¹⁴Bi/²¹⁴Pb RATIO AS INDICATOR OF SEAWATER-TO-AIR FLUX INTENSITY

Yuriy A. SAPOZHNIKOV

JSM07 Thursday, July 3 AM

APPLICATION OF GPS TECHNIQUES IN THE ATMOSPHERE (IAMAS [ICMA], IAGA, IAG)

Location: Site B, Room 23

Presiding Chairs: H. F. Tsai, A. Saito

0900 JSM07/03A/B23-001

SOUNDING THE IONOSPHERE BY GROUND AND SPACE BASED GPS MEASUREMENTS

Norbert JAKOWSKI, Andreas WEHRENPENNIG, Stefan SCHLUETER, Stefan HEISE, Stanimir M. STANKOV

0935 JSM07/03A/B23-002

MONITORING THE RESPONSE TO GEOMAGNETIC STORMS USING GPS TOTAL ELECTRON CONTENT MEASUREMENTS

Richard Brian LANGLEY, Mariangel FEDRIZZI, Eurico Rodrigues DE PAULA

0955 JSM07/03A/B23-003

Invited

ANALYSIS AND RESULTS OF GPS OCCULTATIONS COLLECTED FROM THE CHAMP, SAC-C AND GRACE MISSIONS

George A. HAJJ, Chi AO, Byron IJIMA, Anthony MANNUCCI, Thomas MEEHAN

1035 BREAK

1055 JSM07/03A/B23-004

WATCHING CLIMATE CHANGE: TOWARDS GLOBAL CLIMATE MONITORING USING GPS OCCULTATION DATA FROM CHAMP AND SAC-C

Gottfried KIRCHENGAST, Ulrich FOELSCHKE, Andrea K. STEINER, Andreas GOBIET

1130 JSM07/03A/B23-005

ESTIMATING GRAVITY WAVE CHARACTERISTICS FROM RADIO OCCULTATION DATA: THE ROLE OF INSTRUMENTAL AND RESIDUAL IONOSPHERIC NOISE

Christian MARQUARDT, Sean B. HEALY

1150 JSM07/03A/B23-006

GLOBAL MONITORING OF EQUATORIAL KELVIN WAVE PROPAGATION BY CHAMP AND SAC-C OCCULTATION RESULTS

Ho-Fang TSAI, Toshitaka TSUDA

1210 JSM07/03A/B23-007

ESTIMATION OF SPATIAL AND TEMPORAL IONOSPHERIC EFFECTS ON KOREAN GEODETIC GPS NETWORKS

Samsung LIM, Jayho HAHN

JSM13 Thursday, July 3 AM

DATA ASSIMILATION FOR ATMOSPHERIC AND OCEANIC PROCESSES (IAMAS [ICDM, ICCP], IAHS, IAPSO, IAGA, IAG, SPARC)

Location: Site C, Room 28

Presiding Chairs: W. Lahoz, T. Sasaki

ASSIMILATION AND CHEMISTRY

0900 JSM13/03A/C28-001

Invited

ESTIMATING THE TROPICAL TROPOSPHERIC OZONE DISTRIBUTION BY THE ASSIMILATION OF SATELLITE DATA

Hiroo HAYASHI, Ivanka STAJNER, Nathan WINSLOW, Dylan B.A. JONES, Steven PAWSON, Anne THOMPSON

0930 JSM13/03A/C28-002

Invited

ASSIMILATION OF GOME AND SCIAMACHY OZONE DATA

Henk J. ESKES, Arjo SEGERS, Gijs VAN SOEST, Jan Fokke MEIRINK, Hennie KELDER

1000 JSM13/03A/C28-003

CONSTRUCTION OF 3-DIMENSIONAL OZONE DISTRIBUTION SINCE 1979 USING A CHEMICAL TRANSPORT MODEL WITH ASSIMILATION OF TOTAL OZONE SATELLITE DATA

Toru SASAKI, Takashi MAKI, Ayataka EBITA, Hiroshi KUNIMATSU, Kazuhiko NAGATA, Tsuyoshi SEKIYAMA, Kiyotaka SHIBATA, Kohtaro ORITO

1020 JSM13/03A/C28-004

THE INFLUENCE OF ASSIMILATING DYNAMICAL VARIABLES ON OZONE IN THE CANADIAN MIDDLE ATMOSPHERE MODEL

David SANKEY, Yves ROCHON, Saroja POLAVARAPU, Shuzhan REN, Yan YANG

1040 BREAK

1100 JSM13/03A/C28-005 Invited
OPERATIONAL ASSIMILATION OF ENVISAT CHEMICAL SPECIES OBSERVATIONS.
Dominique R. FONTEYN, S. BONJEAN, S. CHABRILLAT, F. DAERDEN, Q. ERRERA

1130 JSM13/03A/C28-006
SATELLITE DATA EVALUATION GENERATED BY 4D--VAR CHEMICAL ASSIMILATION. APPLICATION TO CRISTA 1 N2O5 OBSERVATIONS
Quentin ERRERA, Dominique FONTEYN, Martin RIESE

1150 JSM13/03A/C28-007
A WAVELET BASED SUBOPTIMAL KALMAN FILTER FOR ASSIMILATION OF STRATOSPHERIC CHEMICAL TRACER OBSERVATIONS
Andrew V. TANGBORN, Ludovic AUGER

1210 JSM13/03A/C28-008
VARIATION AND DIFFUSION OF LOW-N2O AIR MASSES AFTER THE BREAKDOWN OF THE ARCTIC POLAR VORTEX IN 1997 SIMULATED BY CCSR/NIES NUDGING CTM
Hideharu AKIYOSHI, Seiji SUGATA, Takafumi SUGITA, Hideaki NAKAJIMA, Hiroo HAYASHI, Jun-ichi KUROKAWA, Masaaki TAKAHASHI

JSM17 Thursday, July 3 AM

MIXING AND ITS PARAMETERIZATION IN GEOPHYSICAL FLUIDS (IAMAS, IAPSO, IAHS)
Location: Site C, Room 31

0900 JSM17/03A/C31-001 Invited
MIXING IN THE OCEAN AND HOW TOPOGRAPHY AFFECTS IT
Michael C. GREGG

0930 JSM17/03A/C31-002
FLOW REGIMES FOR MIXING IN DOWNSLOPE FLOWS INTO STRATIFIED ENVIRONMENTS
Peter G. BAINES

0950 JSM17/03A/C31-003
INTERNAL WAVES, SOLITARY WAVES, AND TURBULENCE MIXING ON CONTINENTAL SHELF AND SLOPE
Ren-Chieh LIEN, Eric A D'ASARO

1010 JSM17/03A/C31-004
MIXING PROCESSES AT STRONG INTERACTION OF SOLITARY INTERNAL WAVES WITH BOTTOM TOPOGRAPHY
Vasily I. VLASENKO, Kolumban HUTTER

1030 BREAK

1050 JSM17/03A/C31-005
EFFECTS OF STRAIT MIXING ON OCEAN STRATIFICATION
Harry L. BRYDEN, A.J.George NURSER

1110 JSM17/03A/C31-006
USE OF THE TURBULENT KINETIC ENERGY AND SCALAR VARIANCE BUDGETS TO OBTAIN DIRECTLY EDDY VISCOSITY AND DIFFUSIVITY FROM AUV TURBULENCE MEASUREMENTS
Louis GOODMAN, Edward LEVINE

1130 JSM17/03A/C31-007
TURBULENCE ESTIMATES IN A REGION OF COASTAL FRONTS
Edward R. LEVINE, Louis GOODMAN, Rolf G. LUECK, Christopher A. EDWARDS, James O'DONNELL

1150 JSM17/03A/C31-008
INTRUSIVE FLUXES OF HEAT AND MOMENTUM, AND THE LINK TO TURBULENT DISSIPATION
Barry R. RUDDICK, Neil OAKEY

1210 JSM17/03A/C31-009
TWO EQUATION TURBULENCE CLOSURE MODEL FOR SIMULATING VISCOUS DISSIPATION RATES DURING PERIODS OF VARIABLE WIND FORCING
Adolf Konrad STIPS, Hans BURCHARD, Karsten BOLDING, Alfred WUEST

JSP02 Thursday, July 3 AM

NEW PERSPECTIVES OF COUPLED TROPICAL OCEAN-ATMOSPHERE DYNAMICS AND PREDICTABILITY (IAPSO, IAMAS, CLIVAR)
Location: Site B, Room 20

0900 JSP02/03A/B20-001
TOWARDS AN INTERMEDIATE COMPLEXITY MODEL FOR THE EQUATORIAL PACIFIC OCEAN THAT CREATES ITS OWN MEAN STATE
J.Stuart GODFREY, Jaclyn Nicole BROWN

Presiding Chair: T. McDougall

Presiding Chairs: H. Hendon, P. Chu

0920 JSP02/03A/B20-002
THE IMPACT OF CORRECTING THE MEAN STATE ON OCEAN GENERAL CIRCULATION MODELSIMULATIONS
Howard F. SEIDEL, Ping CHANG

0935 JSP02/03A/B20-003
UNDERSTANDING EL NINO IN COUPLED GCMS: THE BENEFITS OF A MODULAR APPROACH
Eric GUILYARDI, Julia SLINGO, Silvio GUALDI, Antonio NAVARRA, Pascale DELECLUSE

0950 JSP02/03A/B20-004
PREDICTABILITY OF THE TROPICAL CYCLONE SEASON IN THE SOUTH WEST PACIFIC
Bertrand Olivier TIMBAL, Sebastien CHENE

1005 JSP02/03A/B20-005
WIND-DRIVEN SEASONAL VARIABILITY IN THE TROPICAL NORTH PACIFIC: A MODEL STUDY, WITH VALIDATION THROUGH ALTIMETER DATA
Stefano PIERINI

1020 BREAK

1040 JSP02/03A/B20-006
INTRASEASONAL VARIABILITY AND THE EL NINO OF 2002-03
William S. KESSLER

1100 JSP02/03A/B20-007 Invited
EL NINO TROPICAL PACIFIC OCEAN SURFACE CURRENT AND TEMPERATURE EVOLUTION IN 2002 AND OUTLOOK FOR LA NINA IN EARLY 2003
Gary S.E. LAGERLOEF, Roger B. LUKAS, Fabrice BONJEAN, JohnT. GUNN, Gary T. MITCHUM, Mark BOURASSA, Tony BUSALACCHI

1120 JSP02/03A/B20-008 Invited
ENSO MODULATION BY MOUNTAIN UPLIFT
Akio KITOH

1140 JSP02/03A/B20-009
SIMULATION OF THE NORTH AMERICAN MONSOON SYSTEM USING A NESTED GRIDATMOSPHERE-OCEAN COUPLED MODEL
Arun CHAKRABORTY, Milind MUJUMDAR, Swadhin K. BEHERA, T.N. KRISHNAMURTI

1155 JSP02/03A/B20-010
DETECTION OF EQUATORIAL ROSSBY WAVE SIGNAL AT INTER-MONTHLY TIMESCALES IN THE OFF-EQUATORIAL PACIFIC
Kunio KUTSUWADA, Kazuhiro YANAI

1210 JSP02/03A/B20-011
COUPLED MECHANISMS INVOLVED IN THE EL NINO RESPONSE TO WESTERLY WIND EVENTS
Matthieu LENGAIGNE, Jean-Phillipe BOULANGER, Christophe MENKES, Pascale DELECLUSE, Eric GUILYARDI, Pete INNESS, Julia SLINGO

JSP05 Thursday, July 3 AM

WORLDWIDE SEA LEVEL CHANGE (IAPSO, IAG)
Location: Site C, Room 30

Conveners: C.L. Provost, P. Woodworth, M. Bevis
Presiding Chair: C.L. Provost

0930 JSP05/03A/C30-001
STERIC SEA LEVEL CHANGE AND TIDE GAUGE-DERIVED SEA LEVEL CHANGE FOR THE PERIOD 1955-1994
Christian Albert LE PROVOST, Cecile CABANES, Anny CAZENAVE

0950 JSP05/03A/C30-002
20TH CENTURY SEA LEVEL RISE
C.K. SHUM, C.Y. KUO, A. BRAUN , Y. YI

1010 JSP05/03A/C30-003
EIGENANALYSIS OF SECULAR SEA LEVEL CHANGES ALONG THE AGEAN AND MEDITERRANEAN COASTS OF ANATOLIA
Hasan YILDIZ, Mehmet Emin AYHAN, Coskun DEMIR, Orhan ARIKAN

1030 BREAK

1100 JSP05/03A/C30-004 Invited
TWENTIETH CENTURY SEA LEVEL; AN ENIGMA
Walter H. MUNK

1130 JSP05/03A/C30-005
THE EVOLUTION OF THE ARAL SEA LEVEL ESTIMATED FROM ALTIMETER, GAUGE ANDHYDRO-METEOROLOGICAL DATA
Elisaveta L. PENEVA, Emil V. STANEV

1150 JSP05/03A/C30-006
ANALYSIS OF SEASONAL AND INTERANNUAL SEA LEVEL VARIABILITY OF THE CASPIAN SEA AND THE KARA BOGAZ GOL BAY BY SATELLITE ALTIMETRY DATA
Sergey A. LEBEDEV

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JSS03 Thursday, July 3 AM

LONG-TERM IN-SITU OCEAN OBSERVATORIES AND OBSERVATIONS (IASPEI, IAG, IAGA, IAPSO, ION)

Location: Site A, Room 13

Convener: H. Utada
Co-Conveners: C.D. Chadwell, A.D. Chave, H. Fujimoto, D. Luther, H. Mikada, M. Sinha
Presiding Chairs: D.S. Luther, H. Utada

0930 JSS03/03A/A13-001 Invited

ACOUSTIC THERMOMETRY OF OCEAN CLIMATE
Walter H. MUNK

0950 JSS03/03A/A13-002

ACOUSTIC REMOTE SENSING OF LARGE-SCALE TEMPERATURE VARIABILITY IN THE NORTH PACIFIC OCEAN
Bruce Douglas CORNUELLE, Brian D. DUSHAW, Detlef STAMMER, Dimitris MENEMENLIS, John A. COLOSI, Matthew A. DZIECIUCH, Bruce M. HOWE, James A. MERCER, Walter H. MUNK, Robert C. SPINDEL, Peter F. WORCESTER

1005 JSS03/03A/A13-003

INTEGRATED ACOUSTICS SYSTEMS FOR OCEAN OBSERVATORIES (IASOO)
Bruce M. HOWE, James H. MILLER, IASOO Committee

1020 JSS03/03A/A13-004

RUSSIAN-AMERICAN INITIATIVE ON EAST-SIBERIAN SEA STUDY
Roger COLONY, Igor DMITRENKO, Anatoliy KOMARITSYN, Alexandr MAKSHITAS, Sergey PRIAMIKOV, Igor SEMILETOV, Valentin SERGIENKO, Noriyuki TANAKA

1035 BREAK

1050 JSS03/03A/A13-005 Invited

PROGRESS IN SEAFLOOR GEODESY: SCIENCE AND TECHNOLOGY
Fred Noel SPIESS

1110 JSS03/03A/A13-006

GPS/ACOUSTIC SEAFLOOR POSITIONING FOR DIRECT OBSERVATION OF THE SEISMIC COUPLING IN THE SUBDUCTION ZONE OF THE JAPAN TRENCH
Hiromi FUJIMOTO, Satoshi MIURA, Yukihito OSADA, Aaron SWEENEY, Minoru NISHINO, Hajime SHINOHARA, Toshihiko KANAZAWA, John A. HILDEBRAND, C. D. CHADWELL

1125 JSS03/03A/A13-007

ESTABLISHMENT OF SEAFLOOR GEODETIC NETWORK AROUND JAPAN
Masayuki FUJITA, Mariko SATO, Kaoru KOYAMA, Jun-ichiro UNEMI, Masato KATAYAMA, Shin-ichi TOYAMA, Tetsu-ichiro YABUKI, Masashi MOCHIZUKI, Zengo YOSHIDA, Akira ASADA

1140 JSS03/03A/A13-008

THE EXPERIMENTAL OF KINEMATIC GPS/ACOUSTIC POSITIONING SYSTEM FROM SURROUNDING COASTAL REFERENCE STATIONS TO SEAFLOOR REFERENCES AT SURUGA BAY, CENTRAL JAPAN
Shingo SUGIMOTO, Masataka ANDO, Keiichi TADOKORO, Manabu MIYAKE, Takashi OKUDA, Wojciech DEBSKI, Toshiyasu NAGAO, Keizo SAYANAGI, Hideyuki MURAKAMI, Taichi KAWAKAMI, Kazuro HIRAHARA

1155 JSS03/03A/A13-009 Invited

PRECISE POSITIONING TECHNIQUE WITH ERROR ESTIMATION FOR LONG-TERM SEAFLOOR GEODETIC OBSERVATION
Akira ASADA, Masashi MOCHIZUKI, Zengo YOSHIDA, Masayuki FUJITA, Mariko SATO, Kaoru KOYAMA, Tetsuichiro YABUKI

1215 JSS03/03A/A13-010

SYNTHETIC APERTURE SONAR USING R/V ROGER REVELLE: A FEASIBILITY STUDY
Davis R. THOMSEN, David T. SANDWELL

JSS04 Thursday, July 3 AM

THERMALLY CONTROLLED PROCESSES WITHIN THE EARTH (IASPEI, IAVCEI, IAGA, IAPSO, IAMAS, IAHS)

Location: Site A, Room 11

Program Group: I.T. Kukkonen, V. Cermak, D.S. Chapman, W.D. Mooney
Presiding Chairs: I.T. Kukkonen, V. Cermak

0900 JSS04/03A/A11-001

NEW EXPERIMENTAL DATA ON VERTICAL VARIATIONS IN HEAT FLOW DENSITY
Yuri Anatolievich POPOV

0920 JSS04/03A/A11-002

HEAT TRANSFER PROCESSES IN THE UPPER CRUST - A CASE STUDY FOR THE REGION AROUND THE KOLA SUPERDEEP BOREHOLE, RUSSIA
R. SCHELLSCHMIDT, Y. POPOV, I. KUKKONEN, G. NOVER, S. MILANOVSKY, L. BOREVSKY, D. MOTTAGHY, C. CLAUSER

0940 JSS04/03A/A11-003

THERMOPHYSICAL ANOMALIES IN ROCKS, UNCOVERED BY DEEP BOREHOLE SG-10 (CENTRAL KYZYLKUMS, WESTERN UZBEKISTAN)
Irina P. SIDOROVA

1000 JSS04/03A/A11-004

THERMAL ISOSTASY AS A TOOL FOR ANALYZING CONTINENTAL GEODYNAMICS
Derrick P. HASTEROK, David S. CHAPMAN

1020 BREAK

1040 JSS04/03A/A11-005

ESTIMATION TEMPERATURE OF ACID MELTS FORMATION IN THE EARTH CRUST
Roland Nikolaevich SOBOLEV

1100 JSS04/03A/A11-006

DECOUPLED THERMAL AND MANTLE HELIUM ANOMALIES - IMPLICATIONS FOR THE TRANSPORT REGIME IN CONTINENTAL RIFT ZONES
Christoph CLAUSER, Erika GRIESSHABER, Horst J. NEUGEBAUER

1120 JSS04/03A/A11-007

NEW DETERMINATION OF THE DENSITY JUMP AT THE INNER CORE BOUNDARY AND IMPLICATIONS FOR GEODYNAMO POWER AND CORE COOLING
David GUBBINS, Guy MASTERS

1140 JSS04/03A/A11-008

HEAT FLOW AND HEAT PRODUCTION IN THE SOUTHERN INDIAN SHIELD: NEW DATA AND INTERPRETATION
Roy SUKANTA, Senthil Kumar P., Labani RAY, Rajeev MENON, Srinivasan RAMASWAMIAH

1200 JSS04/03A/A11-009

HEAT FLOW, LITHOSPHERIC THICKNESS AND TECTONOTHERMAL EVOLUTION OF INDIAN SUBCONTINENT
Om Prakash PANDEY

1220 JSS04/03A/A11-010

FRAC TAL THERMAL CONDUCTIVITY TO COMPUTE LITHOSPHERIC TEMPERATURE DISTRIBUTION: WESTERN INDIA
Vijay P. DIMRI, Nimisha VEDANTI



IAG

G01 Thursday, July 3 AM

POSITIONING. MEETING OF IAG SECTION I

Location: Site C, Room 24

Presiding Chair: C. Boucher

DATUM AND NETWORK

0900 G01/03A/C24-001

REPORT OF THE IAG COMMISSION ON GLOBAL AND REGIONAL GEODETIC NETWORKS
Claude C. BOUCHER

0915 G01/03A/C24-002

ITRF COMBINATION - STATUS AND RECOMMENDATIONS FOR THE FUTURE
Detlef ANGERMANN, Hermann DREWES, Michael GERSTL, Rainer KELM, Manuela KRUEGEL, Barbara MEISEL

0935 G01/03A/C24-003

STATUS OF THE EUROPEAN REFERENCE FRAME - EUREF
Joao Agria TORRES, Jozsef ADAM, Zuheir ALTAMIMI, Wolfgang AUGATH, Claude BOUCHER, Carine BRUYNINX, Alessandro CAPORALI, Erich GUBLER, Werner GURTNER, Bjorn Geirr HARSSON, Helmut HORNIK

0955 G01/03A/C24-004

SCALE VARIATION OF GPS TIME SERIES
Jorma JOKELA, Matti OLLIKAINEN, Markku POUTANEN, Hannu KOIVULA, Mirjam BILKER

1015 G01/03A/C24-005

PRATICAL LIMITATIONS WITH THE IMPLEMENTATION OF A SEMI-DYNAMIC DATUM FOR NEW ZEALAND
Graeme BLICK, John BEAVAN, Chris CROOK, Don GRANT

1035 G01/03A/C24-006

EVOLUTION OF JAPANESE GEODETIC REFERENCE SYSTEM TO SUPPORT INFORMATION SOCIETY ON DYNAMIC EARTH
Kazuo KOMAKI, Hiromichi TSUJI, Masaki MURAKAMI, Yoshio SASAKI, Shoichi MATSUMURA, Makoto MURAKAMI

1055 G01/03A/C24-007
ANALYSIS OF THE NAVD 88 DATUM USING EXPERIMENTAL REGIONAL
GEOID MODELS
Daniel Robert ROMAN

1115 BREAK

1125 G01/03A/C24-008
THE CANADA-WIDE DIFFERENTIAL GPS SERVICE: INITIAL TEST RESULTS
Richard Brian LANGLEY, Amin KASSAM

1145 G01/03A/C24-009
AMBIGUITY RESOLUTION SCHEME AT CODE
Stefan SCHÄER, Michael MEINDL, Urs HUGENTOBLE, Gerhard BEUTLER

1205 G01/03A/C24-010
GPS DATA MODELING: THE DATA CONVERSION FROM ONE TO TWO
FREQUENCIES RECEIVER, USING NEURAL NETWORK ESTIMATIVE
AGGREGATION METHOD
Paulo Cesar Lima SEGANTINE, Carlos Augusto Uchoa DASILVA

1225 G01/03A/C24-011
STUDY ON THE RELATION BETWEEN THE QUALITY OF GPS OBSERVATIONS
AND THE PRECISION OF RELATIVE POSITIONING
Ta-Kang YEH, Chun-Sung CHEN

G05 Thursday, July 3 AM

GEODYNAMICS. MEETING OF IAG SECTION V

Location: Site C, Room 25

Convener: C. Wilson
Presiding Chairs: B. Ducarme, V. Dehant, C. Wilson

GRAVIMETRIC OBSERVATIONS AND INTERPRETATION

0900 G05/03A/C25-001
TIDAL GRAVITY AND TIDAL LOADING RESULTS FROM THE GGP NETWORK
Bernard M.P. DUCARME, He Ping SUN

0915 G05/03A/C25-002
SEASONAL GRAVITY VARIATION AT NY-ALESUND, SVALBARD OBSERVED
FROM A SUPERCONDUCTING GRAVIMETER
Tadahiro SATO, Yoshiaki TAMURA, Koji MATSUMOTO, Kazuyoshi ASARI, Hans-
Peter PLAG, Olivier FRANCIS

0930 G05/03A/C25-003
CD-ROM DISTRIBUTION OF SYOWA SUPERCONDUCTING GRAVIMETER
RECORDS
Kazuo SHIBUYA, Koichiro DOI, Tadahiro SATO, Yoshiaki TAMURA

0945 G05/03A/C25-004
NEW RESULTS OF GRAVIMETRIC DATA PROCESSING AT CURITIBA TIDAL
STATION, BRAZIL
Silvia Helena Soares SCHWAB, Bernard DUCARME, Silvio Rogerio Correia de
FREITAS

1000 G05/03A/C25-005
SURFACE GEOPOTENTIAL AND TOPOGRAPHY INDUCED BY FLUID CORE
MOTIONS
Marianne GREFF-LEFFTZ, Alexandra PAIS, Jean-Louis LE MOUËL

1015 G05/03A/C25-006
OBSERVATIONS OF ATTENUATION AND SPLITTING AFTER THE 2001 MW =
8.4 PERU EARTHQUAKE AND THE POSSIBLE DETECTION OF THE SLICHTER
MODE FROM THE SUPERCONDUCTING GRAVIMETERS OF THE GGP
(GLOBAL GEODYNAMICS PROJECT) NETWORK
Severine ROSAT, Jacques HINDERER, Luis RIVERA

1030 G05/03A/C25-007
GRAVITY CHANGE OBTAINED FROM REPEATED ABSOLUTE GRAVITY
MEASUREMENTS IN CHINA AND ITS GEODYNAMICAL IMPLICATION
Yong WANG, Houtse HSU

1045 G05/03A/C25-008
EARTH'S FREE CORE NUTATION AND FREE OSCILLATION DETERMINED
USING C032 SUPERCONDUCTING GRAVIMETER AT STATION WUHAN/CHINA
He-Ping SUN

1100 BREAK

**SECTION REPORTS AND EARTH ORIENTATION AND
NUTATION**

1115 G05/03A/C25-009
GEODYNAMICS IN THE IAG: RETROSPECTIVE AND PROSPECTIVE
Clark R. WILSON

1130 G05/03A/C25-010
FUNDAMENTAL CONSTANTS AND THEIR IMPLICATIONS
Erwin GROTE

1145 G05/03A/C25-011
THE IAG/IAPSO JOINT WORKING GROUP ON GEODETIC EFFECTS OF
NONTIDAL OCEANIC PROCESSES
Richard S. GROSS

1200 G05/03A/C25-012
CONSISTENCY OF EARTH ORIENTATION PARAMETERS WITH BOTH THE
TERRESTRIAL AND CELESTIAL REFERENCES FRAMES
Daniel GAMBIS

1215 G05/03A/C25-013
A REVISED MODEL OF NUTATION AMPLITUDES DERIVED FROM GPS
OBSERVATIONS
Robert WEBER, Markus ROTHACHER, Gerhard BEUTLER, Urs HUGENTOBLE

1230 G05/03A/C25-014
NEW DEVELOPMENTS IN THE THEORETICAL MODELING OF THE EARTH
PRECESSION
Jose M. FERRANDIZ, Juan GETINO



GAI.03 Thursday, July 3 AM

**ROCK MAGNETISM: THEORY, EXPERIMENTS AND MODELS
(IAGA, ICMA)**

Location: Site A, Room 14

Convener: T. von Dobeneck
Co-Conveners: V. Scherbakov, K. Fukuma, K.P. Kodama
Presiding Chairs: T. von Dobeneck, K. Fukuma

0900 GAI.03/03A/A14-001
STABILITY OF DIFFERENT MAGNETIC STATES AND NATURE OF TRM IN MD
GRAINS
Valera Prokhorovich SHCHERBAKOV, Valentina Vasilevna SHCHERBAKOVA

0920 GAI.03/03A/A14-002
LOW-TEMPERATURE CYCLING OF ISOTHERMAL AND ANHYSTERETIC
REMANENCE: MICROCOERCIVITY AND MAGNETIC MEMORY
Adrian R. MUXWORTHY, David J. DUNLOP, Özden ÖZDEMİR

0940 GAI.03/03A/A14-003
BUBBLE DOMAIN STRUCTURE IN MICRON-SIZE MAGNETITE
Koji FUKUMA

1000 GAI.03/03A/A14-004
UNDERSTANDING VISCOUS BEHAVIOUR IN MULTIDOMAIN MINERALS
Adrian R. MUXWORTHY, Elizabeth MCCLELLAND, Wyn WILLIAMS

1020 BREAK

1040 GAI.03/03A/A14-005
TO THE THEORY OF HYSTERESIS LOOPS FOR THE MAGNETITE GRAINS
WITH THE NEGATIVE EXCHANGE ACROSS THE ANTIPHASE BOUNDARY
Valera Prokhorovich SHCHERBAKOV

1100 GAI.03/03A/A14-006
LOW-TEMPERATURE ANTIFERROMAGNETISM OF SIDERITE,
RHODOCHROSITE, AND VIVIANITE
Tilo VON DOBENECK, Thomas FREDERICH, Ulrich BLEIL, Mark DEKKERS

1120 GAI.03/03A/A14-007 Invited
THE INFLUENCE OF INITIAL STATE, INTERACTION AND THERMAL
RELAXATION ON ISOTHERMAL REMANENT MAGNETISATION CURVES AND
MODELS
David C. HESLOP, Gregg MCINTOSH

1150 GAI.03/03A/A14-008 Invited
THE ANALYSIS OF DEMAGNETIZATION CURVES WITH SKEWED
GENERALIZED FUNCTIONS (SGG): A NOVEL METHOD FOR THE
IDENTIFICATION OF MAGNETIC SOURCES IN SEDIMENTS
Ramon EGLI

GAIL.02 Thursday, July 3 AM

**DYNAMICS, ENERGETICS AND STRUCTURE OF THE
MESOSPHERE-THERMOSPHERE-IONOSPHERE REGION**

Location: Site A, Room 7

Co-Conveners: K. Shiokawa, J. Forbes, M.J. Taylor
Presiding Chairs: S. Maeda, Y. Otsuka

0900 GAIL.02/03A/A07-001 Invited
IONOSPHERIC AND THERMOSPHERIC RESPONSE TO THE APRIL 2002
GEOMAGNETIC STORM
Gang LU, Arthur D. RICHMOND, Raymond G. ROBLE

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0920 GAll.02/03A/A07-002 Invited
SCIENTIFIC OBJECTIVES AND EARLY RESULTS FROM THE GLOBAL ULTRAVIOLETIMAGER (GUVI) ON THE TIMED SPACECRAFT
Larry J. PAXTON, D. MORRISON, A. CHRISTENSEN, C.-I. MENG, Y. ZHANG, B. WOLVEN, H. KIL

0940 GAll.02/03A/A07-003
DISTRIBUTION OF POYNTING FLUX AT HIGH LATITUDES DERIVED FROM SUPERDARN AND IRIDIUM
Colin L. WATERS, B.J. ANDERSON, H. KORTH, R.A. GREENWALD, M. RU'OHONIEMIE, R.J. BARNES

0955 GAll.02/03A/A07-004
INVESTIGATIONS OF THE DYNAMICS OF THE NEUTRAL ATMOSPHERE IN THE E REGION AURORAL ZONE USING A 3-D HIGH RESOLUTION MODEL
Helen F. PARISH, Richard L. WALTERSCHEID, Philip W. JONES, Lawrence R. LYONS

1010 GAll.02/03A/A07-005
THERMAL STRUCTURES OF THE HIGH-LATITUDE IONOSPHERE AND THERMOSPHERE
Sawako MAEDA, Satonori NOZAWA, Hitoshi FUJIWARA

1025 GAll.02/03A/A07-006
PRECIPITATING AURORAL ELECTRONS AND LOWER THERMOSPHERIC NITRIC OXIDE DENSITIES: SNOE, POLAR, SAMPEX, AND NOAA/POES COMPARISONS FOR GEOMAGNETIC STORMS IN 1998-2003
Scott M. BAILEY

1100 GAll.02/03A/A07-007 Invited
A QUASI-PERIODIC STRUCTURE ASSOCIATED WITH SPORADIC-E LAYERS AND NEUTRAL TURBULENCE: RESULTS FROM THE SEEK ROCKET/RADAR CAMPAIGNS
Shoichiro FUKAO, Mamoru YAMAMOTO

1120 GAll.02/03A/A07-008
LARGE PERTURBATION IN THE LOWER THERMOSPHERE OBSERVED FROM SIMULTANEOUS TEMPERATURE AND DENSITY MEASUREMENTS BY SOUNDING ROCKET
Junichi KURIHARA, Koh-ichiro OYAMA, Katsuhisa SUZUKI, Naomoto IWAGAMI

1135 GAll.02/03A/A07-009
GEOMAGNETIC CONJUGATE OBSERVATIONS OF MEDIUM-SCALE TRAVELING IONOSPHERIC DISTURBANCES AT MID-LATITUDES USING ALL-SKY AIRGLOW IMAGERS
Yuichi OTSUKA, Kazuo SHIOKAWA, Tadahiko OGAWA, Phil WILKINSON

1150 GAll.02/03A/A07-010
SIMULTANEOUS MESOSPHERE, THERMOSPHERE AND IONOSPHERE STUDIES DURING GEOMAGNETIC STORMS
Balan NANAN, S. KAWAMURA, T. NAKAMURA, M. YAMAMOTO, S. FUKAO, K. IGARASHI, K. SHIOKAWA, Y. OTSUKA, T. OGAWA, H. ALLEYNE, S. WATANABE

1205 GAll.02/03A/A07-011
OI135.6 NM OBSERVATIONS OF THE NIGHTTIME LOW LATITUDE IONOSPHERE BY IMAGE/FUV
Eiichi SAGAWA, Takashi MARUYAMA, Thomas J. IMMEL, Harald U. FREY, Stephen B. MENDE

1220 GAll.02/03A/A07-012
FIRST RESULT FROM THE EQUATORIAL-LOW LATITUDE IONOSPHERIC TOMOGRAPHY NETWORK IN THE INDIAN ZONE
Sudha RAVINDRAN, C.V. DEVASIA, Smitha V. THAMPI, R. SRIDHARAN, P. SREELATHA, C. Raghava REDDI

GAll.03

Thursday, July 3 AM

HOW, WHEN, WHERE, AND WHY DO MAGNETIC RECONNECTION OCCUR?

Location: Site A, Room 12

Presiding Chair: M. Shay

0900 GAll.03/03A/A12-001
THE STRUCTURE OF THE HALL CURRENT SYSTEM IN THE VICINITY OF THE MAGNETIC RECONNECTION SITE
Tsugunobu NAGAI, Masaki FUJIMOTO

0925 GAll.03/03A/A12-002
CLUSTER OBSERVATION OF A RECONNECTION REGION IN THE MAGNETOTAIL PLASMA SHEET
Andrei RUNOV, Rumi NAKAMURA, Wolfgang BAUMJOHANN, Rudolf TREUMANN, Martin VOLWERK, Tielong ZHANG, Zoltan VOEROES, Andre BALOGH, Berndt KLECKER, Henri REME, Lynn KISTLER

0945 GAll.03/03A/A12-003
GEOTAIL ENCOUNTER WITH MAGNETIC RECONNECTION REGION IN THE EARTH MAGNETOTAIL: EVIDENCE OF COLLISIONLESS RECONNECTION
Xiaohua DENG, H. MATSUMOTO, T. MUKAI

1005 GAll.03/03A/A12-004
OBSERVATIONS IN THE DIFFUSION REGION AT A RECONNECTING SUBSOLAR MAGNETOPAUSE
Stuart D. BALE, Forrest S. MOZER, Tai PHAN

1030

BREAK

1045 GAll.03/03A/A12-005
THIN CURRENT SHEETS AND RECONNECTION ONSET IN THE MAGNETOTAIL
A. Surjalal SHARMA

1105 GAll.03/03A/A12-006
UNDERSTANDING THE ONSET OF FAST COLLISIONLESS RECONNECTION: IF RECONNECTION IS SO FAST, HOW DO CURRENT SHEETS FORM?
Michael Anthony SHAY, James F. DRAKE, Barrett N. ROGERS, Marc SWISDAK

1125 GAll.03/03A/A12-007
SUPRATHERMAL ELECTRONS DURING MAGNETIC RECONNECTION
Masahiro HOSHINO

1150 GAll.03/03A/A12-008
NEW POSSIBLE MECHANISMS OF HIGH ENERGY PARTICLE ACCELERATION IN A PLASMA SHEET
Seiji ZENITANI, Masahiro HOSHINO

1210 GAll.03/03A/A12-009
MHD STUDY OF SUPERSONIC AND SUBSONIC ADIABATIC EXPANSION ACCELERATION PROCESS IN FAST MAGNETIC RECONNECTION
Tohrus SHIMIZU, Masayuki UGAI

GAll.04

Thursday, July 3 AM

WHAT ARE THE STRUCTURES AND DYNAMICS OF THE MAGNETOPAUSE AND ITS BOUNDARY LAYERS?

Location: Site A, Room 8

Co-Conveners: K.-H. Glassmeier, D. Sibeck, J. Johnson

Presiding Chairs: T. G. Onsager, H. Kawano

0900 GAll.04/03A/A08-001 Invited
DYNAMICS OF THE CUSP - SIGNATURES OF SPATIAL AND TEMPORAL VARIABILITY
Terrance G. ONSAGER

0925 GAll.04/03A/A08-002
MONITORING CUSP WITH LOW ENERGY NEUTRAL ATOMS
Satoshi TAGUCHI, Sheng-Hsieh CHEN, Michael R. COLLIER , Thomas E. MOORE, Mei-Ching FOK

0940 GAll.04/03A/A08-003
OBSERVATIONS OF ENERGETIC PARTICLES IN THE DAYSIDE MAGNETOSPHERE BY CLUSTER-II
Kalevi MURSULA, Timo ASIKAINEN, Raine KERTTULA, Andris VAIVADS, Reiner FRIEDEL, Patrick DALY, Finn SOERAAS, Manuel GRANDE, Martin CARTER, Joe F. FENNELL

0955 GAll.04/03A/A08-004
CLEFT/LLBL TOPOLOGY DERIVED FROM CLUSTER MULTI-POINT MEASUREMENTS
Yulia V. BOGDANOVA, Andrew N. FAZAKERLEY, Christopher J. OWEN, Berndt KLECKER, Henri REME, Malcolm W. DUNLOP, Andre BALOGH

1010 GAll.04/03A/A08-005
SIMUNTANEOUS TRACING OF HIGH LATITUDE MAGNETOPAUSE BY INTERBALL, POLAR AND GEOTAIL
Sergey P. SAVIN, Lev M. ZELENYI, Ermanno AMATA, Jean BERCHEM, Paul SONG, Hediako KAWANO, Volt LUTSENKO, Toshifumi MUKAI, Kiyoshi MAEZAWA, Nelson MAYNARD, Masaki FUJIMOTO

1025

BREAK

1040 GAll.04/03A/A08-006
KINETIC ALFVEN WAVES AND MAGNETOPAUSE TRANSPORT
Jay R. JOHNSON, C.Z. CHENG

1055 GAll.04/03A/A08-007
PLASMA WAVES IN THE LOW LATITUDE BOUNDARY LAYER
Hirotosugu KOJIMA, H. MATSUMOTO, H. KAWABATA, T. MUKAI

1110 GAll.04/03A/A08-008
PLASMA WAVES IN THE DAYSIDE RECONNECTION REGION
Hiroshi MATSUMOTO, X.H. DENG, H. KOJIMA, R.R. ANDERSON

1125 GAll.04/03A/A08-009
DUAL SPACECRAFT OBSERVATIONS ON THE DUSK FLANK UNDER NORTHWARD IMF CONDITIONS: JANUARY 10-11, 1997
D.H. FAIRFIELD, C.J. FARRUGIA, T. MUKAI, T. NAGAI, A. FEDOROV

1140 GAll.04/03A/A08-010
MHD SIMULATION OF DAYSIDE MAGNETOSPHERE RESPONSE TO LOCALIZED DENSITY IMPACTS IN THE SOLAR WIND
Ryuhō KATAOKA, Hiroshi FUKUNISHI, Shigeru FUJITA, Takashi TANAKA

1155 GAI.04/03A/A08-011
 GENERATION OF FIELD-ALIGNED CURRENTS IN RESPONSE TO A LONG-
 PERIOD OSCILLATION IN THE SOLAR WIND DYNAMIC PRESSURE:
 PRELIMINARY MHD SIMULATION RESULTS
 Tetsuo MOTOBA, Takashi KIKUCHI, Shigeru FUJITA, Takashi TANAKA

1210 GAI.04/03A/A08-012
 STATISTICAL STUDY OF GEOSYNCHRONOUS MAGNETOPAUSE CROSSINGS
 Daiki YOSHIDA, Tohru ARAKI, Keisuke HOSOKAWA, Natsuo SATO, Akira
 SessaiYUKIMATSU, Raymond A GREENWALD

GAIV.01
Thursday, July 3 AM

THE DYNAMIC SUN, ITS ATMOSPHERE AND WIND
 Location: Site A, Room 6

Presiding Chairs: T. Horbury, M. Miralles

0900 GAIV.01/03A/A06-001 Invited
 GEOTAIL OBSERVATIONS OF TYPE IV, TYPE III, AND TYPE II SOLAR RADIO
 BURSTS
 Roger R. ANDERSON, Roger R. ANDERSON, Hiroshi MATSUMOTO, Kozo
 HASHIMOTO, Hirotsugu KOJIMA, Isamu NAGANO, Michael L. KAISER, Jean-
 Louis BOUGERET

0920 GAIV.01/03A/A06-002
 SPACE PLASMA AND MAGNETIC FIELD PROBING BY ELECTRON BEAM
 ONBOARD INJECTION
 Vladimir Sergeevich DOKUKIN, Victor Nikolaevich ORAEVSKY, Yury Jakovlevich
 RUZHIN

0940 GAIV.01/03A/A06-003 Invited
 COMPUTER AIDED CME TRACKING
 David BERGHMANS

1010 GAIV.01/03A/A06-004 Invited
 THREE-DIMENSIONAL STRUCTURE OF HALO-SHAPED INTERPLANETARY
 DISTURBANCES IDENTIFIED FROM RADIO SCINTILLATION OBSERVATIONS
 Munetoshi TOKUMARU, Masayoshi KOJIMA, Ken'ichi FUJIKI, Masahiro
 YAMASHITA

1030
BREAK

1100 GAIV.01/03A/A06-005
 THE OCCURRENCE ANOMALIES OF MAGNETIC CLOUDS AND CMES VARY
 WITH SOLAR ACTIVITY
 Chin-Chun WU, R.P. LEPPING, N. GOPALSWAMY

1120 GAIV.01/03A/A06-006
 INITIAL SPEEDS OF CMES AND THEIR PROPAGATION SPEEDS IN
 INTERPLANETARY SPACE
 Tomoko NAKAGAWA

GAV.03
Thursday, July 3 AM

**THE GEOSPACE ENVIRONMENT IN NEAR-REAL TIME:
 SCIENCE AND TECHNOLOGY (DIVISION V LEAD, JOINT WITH
 DIVISION III, INTERDIVISIONAL WG ON POLAR RESEARCH,
 AND CEOS)**
 Location: Site A, Room 5

Presiding Chairs: T.I. Gombosi, T. Ogino

0900 GAV.03/03A/A05-001 Invited
 MODELING A SPACE WEATHER EVENT FROM THE SUN TO THE EARTH
 Tamas I. GOMBOSI, Ward B. MANCHESTER, Aaron J. RIDLEY, Darren L. DE
 ZEEUW, Kenneth C. HANSEN, Igor V. SOKOLOV, Gabor TOTH

0920 GAV.03/03A/A05-002 Invited
 A STUDY OF THERMOSPHERIC AND IONOSPHERIC RESPONSES TO
 GEOMAGNETIC STORM BY USING GPS/MET RADIO OCCULTATION DATA
 COMBINED WITH SIMULATION OF TIEGCM MODEL
 Ming-Quey CHEN, Yen-Hsyang CHU, Chien-Ming HUANG, A.D. RICHMOND,
 W.S. SCHREINER

0940 GAV.03/03A/A05-003 Invited
 MODELING THE MAGNETOSPHERE USING DIFFERENT SOLAR WIND
 MONITORS
 Maha ASHOUR-ABDALLA

1000 GAV.03/03A/A05-004 Invited
 CHALLENGES OF USING GLOBAL SIMULATIONS OF THE
 MAGNETOSPHERE/IONOSPHERE FOR SPACE WEATHER
 John G. LYON, Charles C. GOODRICH, Michael J. WILTBERGER

1020 GAV.03/03A/A05-005 Invited
 SOME ASPECTS OF THE DAYSIDE MAGNETOPAUSE MODELING
 Jih Kwin CHAO, Alla V. SUVOROVA

1040
BREAK

1100 GAV.03/03A/A05-006
 DEVELOPMENTS OF NETWORK LABORATORY SYSTEM FOR SPACE
 SIMULATIONS
 Ryoji MATSUMOTO, Hiroshi MATSUMOTO

1120 GAV.03/03A/A05-007 Invited
 KINETIC PLASMA SIMULATION FOR SPACE WEATHER STUDIES
 Joerg BUECHNER

1140 GAV.03/03A/A05-008 Invited
 MODELING THE RESPONSE OF THE GLOBAL THERMOSPHERE TO SPACE
 WEATHER EVENTS
 Tim FULLER-ROWELL, Mihail CODRESCU

1200 GAV.03/03A/A05-009
 THREE-DIMENSIONAL VISUALIZATION OF SHOCK SURFACE RESULTS FROM
 MHD SIMULATION
 Koji KONDOH, Masayuki UGAI

1215 GAV.03/03A/A05-010
 AN MHD SIMULATION OF MAGNETOSPHERIC DYNAMICS AND POLAR
 PHENOMENA
 Tatsuki OGINO, Keiichiro FUKAZAWA, Kyung Sun PARK

GADC.01
Thursday, July 3 AM

**LOW LATITUDE AND EQUATORIAL ELECTROJET STUDIES
 FROM GROUND AND SATELLITE MAGNETIC DATA**
 Location: Site A, Room 10

Co-Conveners: T. Iyemori, V. Doumouya
 Presiding Chair: B.R. Arora

0900 GADC.01/03A/A10-001 Invited
 THE LATITUDE PROFILE OF THE EQUATORIAL ELECTROJET
 Robert John STENING, Heather MCCREADIE

0915 GADC.01/03A/A10-002
 DEVELOPMENT OF SATELLITE BASED INDEX OF THE EQUATORIAL
 ELECTROJET
 Ramaawamy RAJARAM, Mita RAJARAM, Geeta JADHAV

0930 GADC.01/03A/A10-003
 THE EQUATORIAL ELECTROJET (EEJ) SIGNATURE ONBOARD THE CHAMP
 SATELLITE, COMPARISON WITH AN EMPIRICAL MODEL OF THE EEJ
 Vafi DOUMOUYA, Yves COHEN

0945 GADC.01/03A/A10-004
 EFFECTS OF MIGRATING DIP EQUATOR ON THE EQUATORIAL ELECTROJET
 MAGNETIC FIELD VARIATIONS
 Baldev Raj ARORA, Toshihiko IYEMORI

1000 GADC.01/03A/A10-005
 THE NOON-TIME EQUATORIAL ELECTROJET, ITS SPATIAL FEATURES AS
 DETERMINED FROM CHAMP SATELLITE OBSERVATIONS
 Hermann LUEHR, Stefan MAUS, Martin ROTHER

1015 GADC.01/03A/A10-006
 INFLUENCE OF THE EQUATORIAL ELECTROJET ON MAIN FIELD MODELS
 Yves COHEN, Vafi DOUMOUYA, Mohamed HAMOUDI

1030
BREAK

1100 GADC.01/03A/A10-007
 SEASONAL AND LOCAL-TIME DEPENDENCES OF THE INTER-HEMISPHERIC
 FIELD-ALIGNED CURRENTS DEDUCED FROM THE OERSTED SATELLITE
 AND THE GROUND GEOMAGNETIC OBSERVATIONS
 Satoru YAMASHITA, Toshihiko IYEMORI

1115 GADC.01/03A/A10-008
 DAY-TO-DAY VARIABILITY OF THE EARTH'S MAGNETIC FIELD FROM A
 MERIDIAN MAGNETIC STATIONS NETWORK IN VIETNAM
 Minh Huy LE, Hong Thi Thu PHAM, Christine Amory MAZAUDIER

1130 GADC.01/03A/A10-009
 THE STUDY OF TOTAL SOLAR ECLIPSE EFFECT (OCTOBER 24, 1995) ON
 THE GLOBAL SQ AND ELECTROJET CURRENT IN VIETNAM
 Nguyen Thi Kim THOA, Ha Duyen CHAU, Truong Quang HAO, Pham Van TRI, Vo
 Thanh SON, Luong Van LUONG, Vu Hong NAM

1145 GADC.01/03A/A10-010
 INTENSE FLARE EVENTS AND THEIR EFFECTS ON THE LOW LATITUDE
 IONOSPHERIC CURRENT SYSTEM
 Sobhana ALEX, Shyamoli MUKHERJEE

1200 GADC.01/03A/A10-011
 GEOMAGNETIC STORMS OBSERVED IN VIETNAM: SOME EVENTS
 Minh Huy LE, Christine Amory MAZAUDIER, Lan Thi TRAN

1215 GADC.01/03A/A10-012
 GEOMAGNETIC SECULAR VARIATION IN THE AFRICAN OBSERVATORIES
 Tigistu Haile ERITRO

WEEK
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MI01 Thursday, July 3 AM
VARIATION OF THE SOLAR ENERGY OUTPUT AND ITS INFLUENCE ON CLIMATE (IRC, ICCI, ICACGP)

Location: Site C, Room 29

Conveners: W. Schmutz, J.D. Haigh
Presiding Chair: W. Schmutz

0900 MI01/03A/C29-001

RECONSTRUCTION OF SOLAR IRRADIANCE FROM THE EVOLUTION OF THE SURFACE MAGNETIC FIELD
Natalie A. KRIVOVA, Sami K. SOLANKI

0940 MI01/03A/C29-002 Invited

MODELING AND RECONSTRUCTING SOLAR IRRADIANCE AND ITS VARIABILITY
Peter A. FOX

1020 MI01/03A/C29-003

SORCE, THE SOLAR RADIATION AND CLIMATE EXPERIMENT
Gary J. ROTTMAN, Thomas N. WOODS, George M. LAWRENCE, Jerry W. HARDER, William E. MCCLINTOCK, Greg A. KOPP, Robert F. CAHALAN

1040 BREAK
1100 MI01/03A/C29-004 Invited

VARIATIONS OF THE BRIGHT SOLAR LYMAN-ALPHA EMISSION
Tom N. WOODS, Gary J. ROTTMAN

1140 MI01/03A/C29-005

FUTURE SATELLITE OBSERVATIONS OF SOLAR IRRADIANCE
Robert F. CAHALAN, Gary J. ROTTMAN, Thomas N. WOODS, George M. LAWRENCE, Jerald W. HARDER, William E. MCCLINTOCK, Greg KOPP

1200 MI01/03A/C29-006

EMPIRICAL ORTHOGONAL FUNCTION ANALYSIS OF SOLAR SPECTRAL IRRADIANCE FROM SOLSTICE
Guoyong WEN, Robert F. CAHALAN

MI02 Thursday, July 3 AM
CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)

Location: Site B, Room 17

Presiding Chairs: U. Lohman, M. Mikami

0900 MI02/03A/B17-001 Invited

A BRIEF REVIEW OF OBSERVATIONAL STUDIES ON AEROSOL PHYSICAL PROPERTIES IN EAST ASIA
Tadahiro HAYASAKA, Yoshitaka MURAJI

0930 MI02/03A/B17-002

ANALYSIS OF AEROSOL-CLIMATE INTERACTION BY ON-LINE AEROSOL TRANSPORT-RADIATION MODEL
Toshihiko TAKEMURA

0945 MI02/03A/B17-003

INCREASING OF RECENT THREE YEARS KOSA EVENT IN JAPAN
Chiba MASARU, Taicyu TANAKA, Yasunori KUROSAKI, Kohtaro ORITO

1000 MI02/03A/B17-004

A CLOSE LOOK AT AEROSOL-CLOUD INTERACTION AND ITS IMPACT ON RADIATION AND TROPOSPHERIC CHEMISTRY
Chien WANG

1015 MI02/03A/B17-005

EFFECTS OF CLOUD-AEROSOL INTERACTION ON CONTINENTAL AND MARITIME TROPICAL CONVECTIVE CLOUDS AS SEEN FROM SIMULATIONS USING SPECTRAL MICROPHYSICS 2-D MODEL HUCM
Alexander P. KHAIN, Daniel ROSENFELD, Andrei POKROVSKY

1030 BREAK
1100 MI02/03A/B17-006

DIFFERENT ASPECTS OF AEROSOL EFFECTS ON CLOUDS, CLIMATE AND THE HYDROLOGICAL CYCLE
Ulrike LOHMANN, Johann FEICHTER

1130 MI02/03A/B17-007

SIMULATING THE IMPACT OF SEA-SALT ON GLOBAL NSS-SULPHATE AEROSOLS AND CLOUD DROPLET NUMBER CONCENTRATIONS
Sunling GONG, Len A. BARRIE

1145 MI02/03A/B17-008

AEROSOL-CLOUD INTERACTIONS IN MARINE STRATUS CLOUDS
Irena T. PAUNOVA, Henry G. LEIGHTON

1200 MI02/03A/B17-009

EFFECT OF GIANT CLOUD CONDENSATION NUCLEI ON THE PRECIPITATION- NUMERICAL SIMULATION WITH A HYBRID MICROPHYSICAL MODEL -
Naomi KUBA

1215 MI02/03A/B17-010

THE IMPACT OF AEROSOLS ON CLOUD AND PRECIPITATION PROCESSES: CLOUD-RESOLVING MODEL SIMULATIONS
Wei-Kuo TAO

MC01 Thursday, July 3 AM
INTER-CONTINENTAL TRANSPORT AND GLOBAL AND REGIONAL IMPACTS OF EMISSIONS OF ATMOSPHERIC TRACE GASES AND AEROSOLS FROM DIFFERENT CONTINENTS (ICACGP)

Location: Site C, Room 26

Convener: H. Akimoto
Presiding Chairs: H. Akimoto, Y. Kondo

0900 MC01/03A/C26-001

TRANS-PACIFIC TRANSPORT OF CO BASED ON ASSIMILATION OF DATA FROM THE MOPITT INSTRUMENT ON THE TERRA SPACECRAFT
John C. GILLE, Valery YUDIN, Lawrence LYJAK, David EDWARDS, Louisa EMMONS, Daniel ZISKIN, Jarnei CHEN, Merritt DEETER, James DRUMMOND

0920 MC01/03A/C26-002

EUROPEAN IMPACTS ON TROPOSPHERIC OXIDANTS OVER CENTRAL AND EASTERN ASIA
Oliver WILD, Pakpong POCHANART, Hajime AKIMOTO

0940 MC01/03A/C26-003

INTERCONTINENTAL TRANSPORT OF BLACK CARBON AEROSOLS FROM MAJOR SOURCE REGIONS AND ASSOCIATED CLIMATE IMPACT
Chien WANG

1000 MC01/03A/C26-004

INTERCONTINENTAL TRANSPORT OF AEROSOLS: IMPACT OF REGIONAL SOURCES ON GLOBAL CLIMATE IN THE CONTEXT OF ACE-ASIA
Mian CHIN, Paul GINOUX

1020 MC01/03A/C26-005

MULTISCALE AIR QUALITY MODELLING SYSTEM: FIRST GLOBAL RESULTS OF GAS PHASE AND AEROSOL CHEMISTRY.
Jacek W. KAMINSKI, John C. MCCONNELL, Lori NEARY, Sergei A. SOLDATENKO, Sunling GONG, Chao FU, Leiming ZHANG

1040 BREAK
1100 MC01/03A/C26-006

INTERANNUAL VARIABILITY OF AGCM-DERIVED PASSIVE TRACER INTERHEMISPHERIC TRANSPORT AND ITS RELATIONSHIP TO CLIMATE VARIABILITY
Benjamin Richard LINTNER

1120 MC01/03A/C26-007

SEASONAL AND DAY-TO-DAY VARIATIONS OF CARBON MONOXIDE OBSERVED BY GROUND-BASED FTIR AT NORTH PART OF JAPAN
Makoto KOIKE, Y. MASUI, N.B. JONES, Y. ZHAO, P.I. PALMER, D.J. JACOB, Y. KONDO, Y. KAJI, S. KATO, Y. MATSUMI

1140 MC01/03A/C26-008

TRAJECTORY BASED ANALYSIS OF OZONESONDE DATA OVER JAPAN: EFFECT OF LONG RANGE TRANSPORT
Manish NAJA, Hajime AKIMOTO

1200 MC01/03A/C26-009

HEMISPHERIC AND REGIONAL TRENDS OF TROPOSPHERIC OZONE DEDUCED BY TRAJECTORY-ASSISTED ANALYSIS OF OZONESONDE DATA OVER EUROPE, ASIA AND NORTH AMERICA
Hajime AKIMOTO, Manish NAJA

MC16 Thursday, July 3 AM
UNDERSTANDING AND PREDICTING DECADEAL- MULTIDECADAL VARIATIONS (ICCI)

Location: Site C, Room 27

Conveners: V. Mehta, K. Hanawa
Presiding Chair: V. Mehta

0900 MC16/03A/C27-001

DECADEAL SOIL MOISTURE VARIATIONS IN THE UKRAINE: 45 YEARS OF IN SITU OBSERVATIONS COMPARED TO CLIMATE MODEL SIMULATIONS AND NCEP/NCAR AND ERA40 REANALYSES
Alan ROBOCK, Mingquan MU, Konstantin Y. VINNIKOV, Iryna TROFIMOVA, Tatiana ADAMENKO, Pedro VITERBO, Thomas ATKINS

0930

MC16/03A/C27-002

DECADAL AND MULTIDECADAL VARIATIONS OF MONSOON CLIMATE IN EAST ASIA AND THEIR IMPACTS ON WATER RESOURCES AND ECONOMY IN CHINA

Ronghui HUANG

1000

MC16/03A/C27-003

LONG TERM RUNOFF FLUCTUATIONS IN CENTRAL ASIA RIVER BASINS AT CONTEPORARY CLIMATE STATE

Vladimir G. KONOVALOV

1015

MC16/03A/C27-004

DECADAL VARIATIONS IN SNOW CHEMISTRY OBSERVED IN AN EASTERN ANDES ICE CORE FROM NEVADO ILLIMANI (BOLIVIA) AND INFERRED ACCUMULATION CHANGES

Alexandre L. CORREIA, Robert J. DELMAS, Jean-Denis TAUPIN

1045

MC16/03A/C27-005

EXPERIMENTAL DECADAL CLIMATE PREDICTIONS USING A GLOBAL COUPLED GCM

Doug SMITH, Stephen CUSACK, James MURPHY

1115

MC16/03A/C27-006

INTERDECADAL VARIATIONS OF AGCM SIMULATION SKILLS

Alice Marlene GRIMM, Atul Kumar SAHAI

1130

MC16/03A/C27-007

GLOBAL WARMING DOES NOT LEAD TO MORE INTENSE TROPICAL CYCLONES

Johnny C.L. CHAN, Kin Sik LIU

1200

MC16/03A/C27-008

FORECAST OF ENSO AND SOUTH JAPAN TROPICAL CYCLONES FOR THE NEXT DECADES

Jorge Sesma SANCHEZ



P01-Posters

Thursday, July 3 AM

WESTERN BOUNDARY CURRENTS

Location: Site D

Presiding Chair: A.R. Piola

0830-241

P01/03A/D-001

Poster

CIRCULATION IN THE WESTERN ARGENTINE BASIN: MODEL AND OBSERVATIONS

Alberto R. PIOLA, Elbio D. PALMA, Ricardo P. MATANO

0830-242

P01/03A/D-002

Poster

OBSERVATIONAL AND THEORETICAL APPROACHES TO THE MINDANAO UNDERCURRENT A SUBSURFACE COUNTERCURRENT BELOW THE WESTERN BOUNDARY CURRENT

Fan WANG, Dunxin HU, Ping CHANG

0830-243

P01/03A/D-003

Poster

HEAT TRANSPORT ACROSS THE PX-37/40 LINE IN THE NORTH PACIFIC

Hiroki UEHARA, Shoichi KIZU, Dean ROEMMICH, Kimio HANAWA

0830-244

P01/03A/D-004

Poster

RECENT FRESHENING SUBSURFACE WATERS OF KUROSHIO AND NORTH EQUATORIAL CURRENT

Kazuhiko HAYASHI, Koichi ISHIKAWA

0830-245

P01/03A/D-005

Poster

THE NORTHEASTWARD CURRENT SOUTHEAST OF OKINAWA ISLAND

Xiao-Hua ZHU, Hiroshi ICHIKAWA, Kaoru ICHIKAWA, In-Seong HAN

0830-246

P01/03A/D-006

Poster

EDDIES ON THE NORTH BOUNDARY OF KUROSHIO

Akitsugu NADAI

0830-247

P01/03A/D-007

Poster

DETERMINING THE NET KUROSHIO TRANSPORT SOUTH OFF KYUSHU AND SHIKOKU WITH INVERSE TECHNIQUES

Hiroki KODAMA, Ikuo KANEKO

0830-248

P01/03A/D-008

Poster

MONITORING THE KUROSHIO IN THE TOKARA STRAIT AND IZU ISLANDS REGION BY USING SUBMARINE CABLES

Kunio RIKIISHI, Yoshio HASHIMOTO, Hidekazu MATSUDA, Munemi MICHIGAMI

0830-249

P01/03A/D-009

Poster

FORMATION AND STRUCTURE OF THE KUROSHIO SMALL MEANDER OFF THE SOUTHEAST OF KYUSHU

Fumiaki KOBASHI, Kimio HANAWA

0830-250

P01/03A/D-010

Poster

VARIATIONS OF SEA LEVEL ALONG SOUTHERN COAST OF JAPAN BEING AFFECTED BY THE KUROSHIO FLUCTUATIONS

Zhongzhe ZHANG, Kaoru ICHIKAWA

0830-251

P01/03A/D-011

Poster

MOORED ADCP MEASUREMENT OF VELOCITY STRUCTURES OF THE KUROSHIO AND COASTAL CYCLONIC EDDIES SOUTH OF JAPAN

Muneyuki TAKEUCHI, Shiro IMAWAKI, Shin-ichiro UMATANI, Katsuhisa YAMADA, Hiroshi UCHIDA, Masao FUKASAWA

0830-252

P01/03A/D-012

Poster

INFLUENCE OF MESOSCALE EDDIES ON PATH AND SURFACE CURRENT OF THE KUROSHIO

Shinichi KANEKO, Shoichi KIZU, Kimio HANAWA

0830-253

P01/03A/D-013

Poster

TRANSPORT OF THE OYASHIO WATER ACROSS THE SUBARCTIC FRONT INTO THE KUROSHIO-OYASHIO INTERFRONTAL ZONE AND FORMATION OF NPIW

Masachika MASUJIMA, Ichiro YASUDA, Yutaka HIROE, Tomoo WATANABE

0830-254

P01/03A/D-014

Poster

CIRCULATION IN THE NORTH PACIFICSUBARCTIC AND NORTHERN SUBTROPICAL REGIONS

Hiromichi UENO, Ichiro YASUDA

P06

Thursday, July 3 AM

THE SOUTHERN OCEAN (SCOR, SCAR)

Location: Site B, Room 19

Presiding Chair: C. Provost

0900

P06/03A/B19-001

DECADAL-SCALE TEMPERATURE VARIABILITY IN THE SOUTHERN OCEAN

Sarah T. GILLE

0940

P06/03A/B19-002

COMPARISON OF SOUTHERN OCEAN WARMING AT 900-M DEPTH IN MODELS AND OBSERVATIONS

Siobhan OFARRELL, William BUDD

1000

P06/03A/B19-003

TRENDS IN THE ZONAL WINDS OVER THE SOUTHERN OCEAN FROM NCAR/NCEP REANALYSIS AND SCATTEROMETERS

James G. RICHMAN

1020

P06/03A/B19-004

LOW FREQUENCY VARIATIONS OF WATER MASS PROPERTIES IN THE WEDDELL SEA

Eberhard FAHRBACH, Olaf BOEBEL, Olaf KLATT, Gerd ROHARDT, Wolfgang ROETHER, Michael SCHRÖDER

1040

BREAK

1100

P06/03A/B19-005

EDDIES IN DRAKE PASSAGE

Janet SPRINTALL

1120

P06/03A/B19-006

IMPACT OF THE LARGE SCALE WIND FORCING ON THE MALVINAS/FALKLAND CURRENT TRANSPORT

Frederic VIVIER, Christine PROVOST, Michael P. MEREDITH

1140

P06/03A/B19-007

ACC'S BEHAVIORS IN KERGUELEN PLATEAU WATERS

Kentang LE, Jiuxin SHI

1200

P06/03A/B19-008

STRUCTURES OF THE CURRENT AND WATER PROPERTIES ASSOCIATED WITH THE SUB-ANTARCTIC FRONT SOUTHWEST OF TASMANIA

Douglas S. LUTHER, Christopher S. MEINEN, Alan D. CHAVE, D. Randolph WATTS



SS01-Posters

Thursday, July 3 AM

SEISMOLOGICAL OBSERVATION AND INTERPRETATION

Location: Site D

Presiding Chair: J. Havskov

0830-037

SS01/03A/D-001

Poster

STATUS OF SEISMOLOGICAL ACTIVITIES IN MOZAMBIQUE, AND EFFICIENCY OF SYSTEM EARS

Viriato SAMBOCO

0830-038 SS01/03A/D-002 Poster
LIMITATIONS IN ALGORITHMS IN SEISMOLOGY USING DIGITAL DATA
Hari Narain SRIVASTAVA

0830-039 SS01/03A/D-003 Poster
DEEP LOW-FREQUENCY EARTHQUAKES ASSOCIATED WITH ACTIVE FAULTS IN CENTRAL - SOUTHWEST JAPAN
Shiro OHMI, James Jiro MORI

0830-040 SS01/03A/D-004 Poster
A POSSIBLE CAUSAL RELATIONSHIP BETWEEN THE 1998 RUEY-LI SEQUENCE AND THE 1999 CHI-CHI EARTHQUAKE IN TAIWAN
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0830-150 SS01/03A/D-114 Poster
 GEOPHYSICAL DATA CORRELATION ANALYSIS AND THEIR CONNECTION WITH CURRENT SEISMIC REGIME
 Alvaro ANTONYAN, Hrachya PETROSYAN, Margar ADIBEKYAN

0830-151 SS01/03A/D-115 Poster
 TESTING OF EARTHQUAKES AND PROBABILITY DEFINITION OF PRECURSORITY ANOMALIES SEISMOGENITY
 Hrachya PETROSYAN

0830-152 SS01/03A/D-116 Poster
 THE ANALYSIS OF IONOSPHERIC, GEOMAGNETIC AND ELECTROMAGNETIC TIME - SERIES WITH THE PURPOSE OF FORECASTING STRONG EARTHQUAKES
 Margar ADIBEKYAN

0830-153 SS01/03A/D-117 Poster
 THE DISTRIBUTION OF THE OBSERVED PARAMETERS OF THE TILT TIDE IN CHINA
 Zhengyuan LI, Zhiyao CHEN, Suiping LIN

0830-154 SS01/03A/D-118 Poster
 A BAYESIAN CHANGE POINTS ANALYSIS ON THE SEISMIC ACTIVITY IN NORTHEASTERN TAIWAN
 Tsai-Hung FAN, Wei-Chen CHEN

0830-155 SS01/03A/D-119 Poster
 DIAGNOSIS OF SEISMOOZONE EFFECTS
 Sergei A. SOLDATENKO, Alexander V. TERTYSHNIKOV

0830-156 SS01/03A/D-120 Poster
 CALIBRATION EXPLOSIONS IN ISRAEL FOR IMPROVEMENT CTBT MONITORING
 Yefim N. GITTERMAN, Avi SHAPIRA

0830-157 SS01/03A/D-121 Poster
 DETECTION OF LONG PERIOD ACOUSTIC WAVES IN CONJUNCTION WITH EARTH'S BACKGROUND FREE OSCILLATIONS
 Kiwamu NISHIDA, Yoshio FUKAO, Shingo WATADA, Naoki KOBAYASHI, Makoto TAHIRA, Naoki SUDA, Kazunari NAWA

0830-158 SS01/03A/D-122 Poster
 REVIEW OF ACTIVITIES ON RECORDING CALIBRATION EXPLOSIONS AT THE FORMER SEMIPALATINSK TEST SITE DURING 1997-2000 BY KAZAKH STATIONS
 Natalya MIKHAILOVA

0830-159 SS01/03A/D-123 Poster
 LATERAL VARIATIONS OF SHALLOW SHEAR-VELOCITY STRUCTURE IN CHIANGAN AREA OF TAIWAN
 Wen-Yen CHANG, Ruey-Der HWANG, Guey-kuen YU, Jo-Pan CHANG

SS02		Thursday, July 3 AM	
SEISMIC SOURCES: MODELING AND PREDICTION			
Location: Site A, Room 3			
Presiding Chairs: J.J. Mori, M. Ohnaka			
0930	SS02/03A/A03-001	0930 SS02/03A/A03-001	
A CONSTITUTIVE SCALING LAW THAT UNIFIES SHEAR RUPTURES OVER A BROAD RANGE FROM LABORATORY-SCALE TO FIELD-SCALE: IMPLICATIONS OF TEMPERATURE IN THE BRITTLE-PLASTIC TRANSITION REGIME Mitiyasu OHNAKA, Aitaro KATO			
0945	SS02/03A/A03-002	0945 SS02/03A/A03-002	
APPARENT SLIP-DEPENDENCE OF CRITICAL SLIP- WEAKENING DISTANCE OBSERVED ON EARTHQUAKE FAULTS AND ITS POSSIBLE IMPLICATIONS Takeshi MIKUMO, Eiichi FUKUYAMA			
1000	SS02/03A/A03-003	1000 SS02/03A/A03-003	
SOURCE PARAMETER SCALING FOR SMALL EARTHQUAKES OBSERVED AT THE WESTERN NAGANO DEEP BOREHOLE, CENTRAL JAPAN Anna Louise STORK, Kazutoshi IMANISHI, Hisao ITO			
1015	SS02/03A/A03-004	1015 SS02/03A/A03-004	
ON THE EXPECTED RELATIONSHIPS BETWEEN APPARENT STRESS, STATIC STRESS DROP, EFFECTIVE SHEAR FRACTURE ENERGY, AND EFFICIENCY N. M. BEELER, T.-F. WONG, S. H. HICKMAN			
1030	BREAK	1030 BREAK	
1045	SS02/03A/A03-005	1045 SS02/03A/A03-005	
ESTIMATION OF DISTRIBUTIONS OF SEISMIC ENERGY DENSITY AND FRACTURE ENERGY USING EARTHQUAKE SOURCE MODELS Satoshi IDE			
1100	SS02/03A/A03-006	1100 SS02/03A/A03-006	
FRICTIONAL HEAT AND RADIATED ENERGY BUDGET FOR THE 1999 CHICHI, TAIWAN EARTHQUAKE James J. MORI, Hidemi TANAKA			
1115	SS02/03A/A03-007	1115 SS02/03A/A03-007	
ESR DETECTION OF FRICTIONAL HEAT DURING SEISMIC FAULT SLIP Tatsuro FUKUCHI, Kazuo MIZOGUCHI, Toshihiko SHIMAMOTO			
1130	SS02/03A/A03-008	1130 SS02/03A/A03-008	
FAULT DAMAGED ZONES DEDUCE BY TRAPPED WAVE AND THEIR RELATION TO EARTHQUAKE RUPTURE PROCESS Yasuto KUWAHARA, Hisao ITO			
1145	SS02/03A/A03-009	1145 SS02/03A/A03-009	
ELASTIC PROPERTY OF DAMAGED ZONES INFERRED FROM IN-SITU STRESS: SEISMIC WAVE VELOCITIES AND THEIR SHIFTS CAUSED BY FAULTING Kiyohiko YAMAMOTO, Namiko SATO, Yasuo YABE			
1200	SS02/03A/A03-010	1200 SS02/03A/A03-010	
MACROSCOPIC APPROACH TO HETEROGENEOUS SEISMIC SOURCE PHYSICS Piotr SENATORSKI			
1215	SS02/03A/A03-011	1215 SS02/03A/A03-011	
POTENTIAL EARTHQUAKE SOURCE Yuri S. TYUPKIN			
<div> <div>V</div> <div>IAVCEI</div> </div>			
V05		Thursday, July 3 AM	
VOLCANIC FLOWS: OBSERVATION, EXPERIMENT, AND THEORY			
Location: Site A, Room 4			
Convener: T.P. Miller			
Co-Conveners: T. Koyaguchi, A. Neri			
Presiding Chairs: T. Miller, A. Neri, T. Koyaguchi			
0900	V05/03A/A04-001	0900 V05/03A/A04-001	
MODELLING THE GROWTH DYNAMICS OF THE LAVA DOME ON SOUFRIERE HILLS VOLCANO, MONTSERRAT Alina Jane HALE, Geoff WADGE			
0915	V05/03A/A04-002	0915 V05/03A/A04-002	
NEW INSIGHTS ON KINEMATICS AND DEFORMATION WITHIN LAVA DOMES Cecile BUISSON, Olivier MERLE			

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0930 V05/03A/A04-003
GROWTH OF EXTRUSIVE LAVA DOMES AND POWERFUL EXPLOSIONS ON SHIVELUCH VOLCANO (KAMCHATKA) IN 2001 - 2002
Sergei A. FEDOTOV, Victor N. DVIGALO, Victor V. IVANOV, Sergey A. KHUBUNAYA, Nikolay I. SELIVERSTOV, Nikolay A. ZHARINOV

0945 V05/03A/A04-004
THE EXPLOSIVE AND EFFUSIVE DOME-FORMING ERUPTIONS OF KAMCHATKAN VOLCANOES: QUANTITATIVE MEASUREMENTS FROM SPACE
Michael S. RAMSEY, Jonathan DEHN

1000 V05/03A/A04-005
SEISMICITY OF ANDESITIC VOLCANO DURING BLOCK-LAVA EFFUSION: VOLCAN DE COLIMA, MEXICO
Vyacheslav M. ZOBIN, Justo OROZCO-ROJAS, Gabriel A. REYES-DAVILA, Carlos NAVARRO

1015 V05/03A/A04-006
DEVELOPMENT OF THE LAVA FLOW SIMULATION CODE 'LAVASIM' FOR AN ADVANCED HAZARD SYSTEM IN THE 'VTFS' PROJECT
Masataka HIDAKA, Asao YAMAMOTO, Akio GOTO, Susumu UMINO, Eisuke FUJITA

1030 V05/03A/A04-007
KINEMATIC AND INTERNAL STRAIN IN LAVA FLOWS SPREADING ON IRREGULAR BASEMENTS
Cecile BUISSON, Claude SMUTEK, Eric DELCHER

1045 V05/03A/A04-008
ARE SPINIFEX-CUMULATE TEXTURED KOMATIITIC ROCK UNITS NECESSARILY LAVAS? ARCHEAN EXAMPLES FROM DUNDONALD BEACH, ABITIBI GREENSTONE BELT, CANADA
Ray A.F. CAS, Michel HOULE, Steve BERESFORD, Michael LESHER, Anthony FOWLER, Nicholas ARNDT, Jessica TROFIMOVS, Nic ROSENGREN, Phil THURSTON

1100 BREAK

1120 V05/03A/A04-009
COMPUTER SIMULATIONS OF LAVA FLOWS FOR HAZARD ASSESSMENT
Massimiliano FAVALLI, Giovanni MACEDONIO, Augusto NERI, Maria Teresa PARESCHI

1135 V05/03A/A04-010
RHEOLOGY OF BUBBLY FLOWS IN A PIPE
Masaharu KAMEDA, Takuya KAMEMIZU, Yoshio NAKASATO, Mie ICHIHARA

1150 V05/03A/A04-011
EXPERIMENTAL SIMULATION OF STEADY-STATE FLOW IN BASALTIC DIKES AND SILLS
Jeremy Charles PHILLIPS, Anna WALTERS

1205 V05/03A/A04-012
LONG TIME-SCALE PRESSURE FLUCTUATIONS IN A DEGASSING LABORATORY FLUID WITH COMPARISON TO VOLCANIC TILT CYCLES
Stephen J. LANE, Graham A. RYAN, Jeremy C. PHILLIPS

V07 Thursday, July 3 AM

SUBAQUEOUS VOLCANISM, VOLCANOGENIC SEDIMENTATION AND HYDROTHERMAL SYSTEMS
Location: Site A, Room 1

Presiding Chairs: J. Varekamp, K. Kano

0900 V07/03A/A01-001
CARAPACHO VOLCANO: A BASALTIC TUFF RING FORMED BY HYDROVOLCANIC PROCESSES
Corina RISSO, Marina DROSINA

0915 V07/03A/A01-002
SHALLOW SUB-VOLCANIC SILL COMPLEXES AND INTRA-CRATER INTRUSIVE PROCESSES ASSOCIATED WITH THE NEOGENE MONOGENETIC PHREATOMAGMATIC VOLCANIC FIELDS IN THE PANNONIAN BASIN (HUNGARY)
Karoly NEMETH, Ulrike MARTIN

0930 V07/03A/A01-003
ALTERATION OF TEPHRA IN THE CENTRAL AMERICA SUBDUCTION ZONE – COMPARRSION OF EXPERIMENTAL AND FIELD STUDY DATA
Ulrike SCHACHT, Christian HENSEN, Steffen KUTTEROLF, Mark SCHMIDT, Klaus WALLMANN

0945 V07/03A/A01-004
ORIGIN OF CLAY IN VOLCANIC ASH OF HYDROVOLCANIC ERUPTIONS
Tsukasa OHBA

1030 V07/03A/A01-005
FLUID-MECHANICAL CONSTRAINTS ON STYLE OF A SUBAQUEOUS ERUPTION
Joseph Scott WALDER

1045 V07/03A/A01-006
MAGMATIC PRODUCTION RATE DETERMINED BY VOLCANICLASTIC LITHOFACIES VARIATIONS IN A RAPIDLY FLUCTUATING CALDERA LAKE, OKMOK VOLCANO, ALASKA
Leslie Deanne ALMBERG, James E. BEGET, Jessica F. LARSEN

1100 V07/03A/A01-007
MAGMA-WATER INTERACTIONS IN A GEOTHERMAL ENVIRONMENT, THE 1886 ROTOMAHANA ERUPTION
Jean-Baptiste G. ROSSEEL, James D.L. WHITE

1115 V07/03A/A01-008
INFLUENCE OF THE VOLCANIC ENVIRONMENT ON HYDROTHERMAL FLUIDS CIRCULATION: EXAMPLE OF THE CHELOPECH AU-CU HIGH-SULFIDATION EPITHERMAL DEPOSIT, BULGARIA
Isabelle CHAMBEFORT, Robert MORITZ, Stephane JACQUAT, Rumen PETRUNOV

1130 V07/03A/A01-009
ASSIMILATION OF BRINE BY MAGMA AND IMPLICATIONS FOR HYDROTHERMAL CIRCULATION BENEATH OCEANIC ISLAND VOLCANOES
Michelle L. COOMBS, Thomas W. SISSON, Jun-Ichi KIMURA

1145 V07/03A/A01-010
SHALLOW DEGASSING IN THE COPAHUE HYDROTHERMAL SYSTEM, ARGENTINA
Johan C. VAREKAMP

V11 Thursday, July 3 AM

INTEGRATED MONITORING OF ACTIVE VOLCANOES
Location: Site A, Room 2

Convener: S.R. McNutt
Co-Convener: H. Okada
Presiding Chairs: S.R. McNutt, H. Okada

0900 V11/03A/A02-001
INVESTIGATION OF CYCLIC ACTIVITY AT SOUFRIERE HILLS VOLCANO, MONTERRAT, THROUGH MULTIPLE MONITORING TECHNIQUES
Simon R. YOUNG, Barry VOIGHT, Marie EDMONDS, Richard HERD, Glenn THOMPSON, Glen S. MATTIOLI

0920 V11/03A/A02-002
PRESSURE SENSOR, SEISMIC AND SATELLITE DATA NEEDED TO RESOLVE DETAILS OF THE 1999 ERUPTION OF SHISHALDIN VOLCANO, ALASKA
Jacqueline CAPLAN-AUERBACH

0940 V11/03A/A02-003
VISUAL EVIDENCE OF SEISMO-ACOUSTIC WAVE PROPAGATION AT MOUNT ETNA
Jonathan M. LEES, Maurizio RIPEPE

1000 V11/03A/A02-004
DATABASE OF VOLCANIC EARTHQUAKES AND TREMOR OBSERVED IN JAPAN (1): AS AN EFFICIENT TOOL FOR UNDERSTANDING ACTIVE VOLCANOES
Takeshi NISHIMURA, Masato IGUCHI

1020 V11/03A/A02-005
MULTI-PARAMETER MONITORING ON MONTERRAT: CONCEPTS, MEGABYTES OF DATA AND RESULTS
Jurgen W. NEUBERG, Marie EDMONDS, Richard HERD, Glenn THOMPSON, David GREEN, Tanya POWELL, Art JOLLY

1040 BREAK

1100 V11/03A/A02-006
CRUSTAL DEFORMATIONS IN IZU-OSHIMA ISLAND DETECTED BY SAR INTERFEROMETRY
Satoshi OKUYAMA, Shuzo TAKEMOTO, Makoto MURAKAMI, Mikio TOBITA, Satoshi FUJIWARA, Hiroyuki NAKAGAWA, Hiroshi YARAI

1120 V11/03A/A02-007
SURVEILLANCE OF THE LAVA LAKE ACTIVITY OF NYIRAGONGO VOLCANO: BEFORE, DURING AND AFTER THE 2002 ERUPTION
Mahinda KASEREKA, Mifundu WAFULA, Kalendi S. KAVOTHA, Tuluka MAVONGA, Nyonbo LUKAYA, Hiroyuki HAMAGUCHI

1140 V11/03A/A02-008
INTERACTION OF DIKE INTRUSION AND PRESSURE SOURCE INFERRED FROM INTEGRATED GROUND DEFORMATION MONITORINGS AT IWATE VOLCANO, NORTHEASTERN JAPAN
Minemori SATO, Hiroyuki HAMAGUCHI

1200 V11/03A/A02-009
VOLCANO MONITORING AND RISK ASSESSING IN CHINA
Hanjiang HONG, Yaqin ZHENG, Chaosong JIANG, Zhiguan SHANGGUAN, Ke LI, Qingfu YANG, Yi ZHAO, Jiuchang HU



JSA06

Thursday, July 3 PM

SEISMO-, VOLCANO- AND TECTONO-ELECTROMAGNETIC EFFECTS (IAGA, IASPEI, IAVCEI)

Location: Site A, Room 9

Presiding Chairs: J. Zlotnicki, Y. Sasai

VOLCANOMAGNETISM

1400 JSA06/03P/A09-001

LOG-PERIODIC MODULATION TO POWER LAW OF CHANGE IN THE GEOELECTRIC POTENTIAL DIFFERENCE OBSERVED ON NIJIMA ISLAND PRIOR TO VOLCANIC AND SEISMIC ACTIVATION IN THE IZU ISLANDS REGION, JAPAN 2000

Haruo TANAKA

1415 JSA06/03P/A09-002

ELECETRIC AND MAGNETIC FIELD CHANGE ASSOCIATED WITH THE 2000 USU VOLCANO ERUPTION

Toru MOGI, Hideyuki SATO, Mizue SABA, Kengo TANIMOTO, Yasunori NISHIDA, Masamitsu TAKADA, Mitsuru UTSUKI

1430 JSA06/03P/A09-003

MAGENTIC, ELECTRIC AND ELECTROMAGNETIC STUDIES ON ACTIVE VOLCANOES : LA FOURNAISE CASE (REUNION ISLAND)

Jacques ZLOTNICKI, Valentin MIKHAILOV , Jean Louis LE MOUËL, Alexi GVISHIANI, Fernando SANTOS, Paul YVETOT, Shamil BOUGOUDINOV, Rahul KANWAR, Frederic FAUQUET, Thomas STAUDACHER

1445 JSA06/03P/A09-004

ON SELF-POTENTIAL VARIATION COINCIDENT WITH THE 2000 SUMMIT ERUPTION ON MIYAKEJIMA ISLAND, JAPAN

Makoto UYESHIMA, Yoichi SASAI, Tsuneomi KAGIYAMA, Yasunori NISHIDA

1500 JSA06/03P/A09-005

FLUID/MASS/HEAT MIGRATION DURING THE CALDERA FORMATION OF MIYAKE-JIMA VOLCANO IN 2000 AS INFERRED FROM ELECTROMAGNETIC OBSERVATIONS

Yoichi SASAI, Jacques ZLOTNICKI, Makoto UYESHIMA, Hisashi UTADA, Tsuneomi KAGIYAMA, Takeshi HASHIMOTO, Yasunori NISHIDA, Paul YVETOT, Yuji TAKAHASHI

1515 JSA06/03P/A09-006

MT. ETNA ERUPTS AGAIN: AND MAGNETIC FIELD MONITORING IS A KEY PART OF THE PICTURE

Ciro DEL NEGRO, Gilda M. CURRENTI, Rosalba NAPOLI, Annamaria VICARI

1530 JSA06/03P/A09-007

SEASONAL ENHANCEMENTS OF LOCAL SELF-POTENTIAL AT OWENS VALLEY, CA.

Shin'ya SAKANAKA, Malcolm JOHNSTON, Yoichi SASAI, Yoshikazu TANAKA, Mitsuru UTSUGI

1545 BREAK

1600 JSA06/03P/A09-008

ON THE ANNUAL VARIATIONS IN GEOMAGNETIC DIFFERENCES OBSERVED IN LONG VALLEY CALDERA, CALIFORNIA

Takeshi HASHIMOTO, Malcolm J.S. JOHNSTON, Yoshikazu TANAKA, Yoichi SASAI, Mitsuru UTSUGI, Shin'ya SAKANAKA

1615 JSA06/03P/A09-009

VARIATIONS OF SELF-POTENTIAL AND GROUND TEMPERATURE AT MERAPI VOLCANO PRIOR TO ITS CRISIS IN 2001

Sven FRIEDEL, Svetlana BYRDINA, Ulrich SERFLING, Carsten RÜCKER, Franz JACOBS

1630 JSA06/03P/A09-010

FUNDAMENTAL CHARACTERISTICS OF TRANSIENT EM FIELD VARIATIONS DUE TO ELECTROKINETIC PHENOMENA BY FLUID FLOW IN THE CRUST

Tsutomu OGAWA, Makoto UYESHIMA

1645 JSA06/03P/A09-011

NUMERICAL SIMULATION OF TERRAIN-RELATED SELF-POTENTIAL ON VOLCANOES AND ITS CHANGES CAUSED BY MAGMATIC AND HYDROTHERMAL ACTIVITIES

Tsuneo ISHIDO

1700 JSA06/03P/A09-012

VOLCANOMAGNETIC VARIATION OBSERVED AT KUCHIERABUJIMA VOLCANO, JAPAN

Wataru KANDA, Yoshikazu TANAKA, Mitsuru UTSUGI, Ikuko FUJII

1715 JSA06/03P/A09-013

NEW PROCEDURES TO EXTRACT GEOMAGNETIC FIELD VARIATIONS CAUSED BY VOLCANIC ACTIVITIES

Ikuko FUJII, Wataru KANDA

1730 JSA06/03P/A09-014

ELECTRICAL FIELD VARIATIONS DURING VOLCANIC ERUPTIONS: LABORATORY AND FIELD STUDIES

Bernd ZIMANOWSKI, Ralf BUETTNER

JSH02-Posters

Thursday, July 3 PM

GROUNDWATER AND VOLCANOES (IAHS/ICGW, IAVCEI)

Location: Site D

Convener: M. Yasuhara

1400-001 JSH02/03P/D-001 Poster

GEOCHEMICAL AND ISOTOPIC CHANGES IN SPRING WATER IN RELATION TO THE 2000 ERUPTION OF MIYAKEJIMA VOLCANO, JAPAN

Tsutomu SATO, Isao MACHIDA, Makoto TAKAHASHI, Taro NAKAMURA, Norio MATSUMOTO, Ryu OHTANI, Masaya YASUHARA, Naoji KOIZUMI

1400-002 JSH02/03P/D-002 Poster

CHANGE IN GROUNDWATER LEVEL BEFORE THE 2000 ERUPTION OF USU VOLCANO, JAPAN

Tomo SHIBATA, Norio MATSUMOTO, Fujio AKITA

1400-003 JSH02/03P/D-003 Poster

INTERACTION OF VOLCANIC GASES WITH GROUND WATER AT THE USU 2000 ERUPTION

Jun-ichi HIRABAYASHI, Kenji NOGAMI, Tsutomu ABIKO, Tokumitsu MAEKAWA, Atsuo SUZUKI, Takeshi OHBA

1400-004 JSH02/03P/D-004 Poster

CHANGE IN WATER CHEMISTRY OF HOT SPRINGS RELATED WITH VOLCANIC ACTIVITIES IN KUSATSU-SHIRANE VOLCANO REGION, GUNMA, JAPAN

Yoshikazu KIKAWADA, Takao OI, Joyo OSSAKA

1400-005 JSH02/03P/D-005 Poster

CONCEPTUAL MODEL OF HYDRODYNAMIC OPERATION OF THE HOT WATER AQUIFERS IN MOROCCO

Yassine ZARHLOULE

1400-006 JSH02/03P/D-006 Poster

CHEMICAL AND ISOTOPIC NATURE OF VERY SALINE SPRINGS IN CENTRAL JAPAN: IMPLICATION TO THEIR ORIGIN

Kohei KAZAHAYA, Masaya YASUHARA, Tsutomu SATO, Akihiko INAMURA, Noritoshi MORIKAWA, Hiroshi A. TAKAHASHI, Masaaki TAKAHASHI, Michiko OHWADA, Beatrice E. RITCHIE

1400-007 JSH02/03P/D-007 Poster

HELIUM ISOTOPES IN GROUNDWATERS FROM THE KOBE AREA: APPLICATION TO THERMAL WATER CIRCULATION

Noritoshi MORIKAWA, Kohei KAZAHAYA, Keisuke NAGAO, Masaya YASUHARA, Akihiko INAMURA, Masaaki TAKAHASHI, Hirochika SUMINO, Michiko OHWADA

1400-008 JSH02/03P/D-008 Poster

GEOCHEMICAL BEHAVIOR OF TRACE ELEMENTS IN THE SPRING, GROUNDWATER AND LAKE WATER AT THE FOOT OF MT. FUJI, CENTRAL JAPAN

Satoshi KOSHIMIZU, Kenji TOMURA, Hiroshi KOBAYASHI

1400-009 JSH02/03P/D-009 Poster

GRAVITY SURVEY IN KUSATSU-SHIRANE VOLCANO, JAPAN

Masahiko MAKINO, Shiro WATANABE, Tatsuya SUMITA, Yasuo OGAWA

1400-010 JSH02/03P/D-010 Poster

GRAVITY CHANGES AND GROUND DEFORMATION AFTER THE 1995 ERUPTION AT KUJU VOLCANO, CENTRAL KYUSHU, JAPAN

Jun NISHIJIMA, Yasuhiro FUJIMITSU, Sachio EHARA

1400-011 JSH02/03P/D-011 Poster

GEOCHEMICAL CHARACTERISTICS OF HOT SPRING WATER IN MT. GASSAN AREA, YAMAGATA PREFECTURE, NORTHEAST JAPAN

Masaaki TAKAHASHI, Kohei KAZAHAYA

1400-012 JSH02/03P/D-012 Poster

ISOTOPIC ALTITUDE EFFECTS OF PRECIPITATION, SPRING WATER AND RIVER WATER IN THE SOUTHERN SLOPE OF MT. ONTAKE, JAPAN

Taro NAKAMURA, Tsutomu SATO, Masaya YASUHARA

1400-013 JSH02/03P/D-013 Poster

GEOCHEMICAL INTERPRETATION OF GROUNDWATER HYDROLOGY ON UNZEN VOLCANO, SOUTHWEST JAPAN

Masaya YASUHARA, Kohei KAZAHAYA, Akihiko INAMURA, Tadashi KONO, Shinji OHSAWA, Yuki YUSA, Koichi KITAOKA

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- 1400-014 JSH02/03P/D-014 Poster**
GEOCHEMISTRY AND GROUNDWATER FLOW IN ASAMA VOLCANO, CENTRAL JAPAN
Hidekazu SUZUKI, Norio TASE
- 1400-015 JSH02/03P/D-015 Poster**
PECULIARITIES OF SEDIMENTATION WITHIN CALDERA STRUCTURES OF VOLCANIC BELTS (KAMCHATKA)
Gennady A. KARPOV, Elena G. LUPIKINA, Svetlana B. BORTNIKOVA, Dmitry Yu. KUZMIN
- 1400-016 JSH02/03P/D-016 Poster**
CHEMICAL WEATHERING AND THE OCCURRENCE OF LARGE-SCALE LANDSLIDES AT THE SHIROUMA-OIKE VOLCANO, CENTRAL JAPAN
Naoki WATANABE, Naoshi YONEKURA, Wataru SAGARA, Osamu SATO, Hideaki MARUI

JSH03 Thursday, July 3 PM

QUANTITATIVE APPROACHES TO HYPERHEIC FLOWS AND THEIR BIOGEOCHEMICAL CONSEQUENCES IN MARINE, ESTUARINE AND FRESHWATER SYSTEMS (IAHS, ICWQ)

Location: Site A, Room 16

Presiding Chair: S. Onodera

- 1400 JSH03/03P/A16-001**
MAGNITUDES AND MECHANISMS OF SUBMARINE GROUNDWATER DISCHARGE IN THE COASTAL ZONE
Guebuem KIM, Dong-Woon HWANG, Han-Soeb YANG
- 1420 JSH03/03P/A16-002**
APPLICATION OF HARMONIC GROUNDWATER FLOW SOLUTIONS TO ASSESS TIDE- AND WAVE-INDUCED BENTHIC FLUXES
Anthony J. SMITH, David E. HERNE
- 1440 JSH03/03P/A16-003**
INTERACTION BETWEEN RIVER WATER, GROUNDWATER, AND SEAWATER IN THE YELLOW RIVER DELTA
Makoto TANIGUCHI, Kunihide MIYAOKA, Shin-ichi ONODERA, Tomochika TOKUNAGA, Yoshihiro FUKUSHIMA
- 1500 JSH03/03P/A16-004**
GROUNDWATER DISCHARGE AND MIXING ESTIMATES IN WEST NECK BAY, SHELTER ISLAND, NEW YORK VIA ISOTOPIC APPROACHES
Henrieta DULAIIOVA, Bill BURNETT, Willard S. MOORE, Henry BOKUNIEWICZ

JWH02 Thursday, July 3 PM

THE ROLE OF GEWEX HYDROMETEOROLOGICAL SCIENCE IN IMPROVED WATER RESOURCES MANAGEMENT (IAHS, IAMAS)

Location: Site A, Room 15

Convener: A. Hall

Co-Conveners: L. Martz, R.E. Stewart

Presiding Chairs: A. Hall, D. Rosbjerg

- 1410 JWH02/03P/A15-001**
THE WATER RESOURCES APPLICATION PROJECT OF THE GEWEX HYDROMETEOROLOGY PANEL - STATUS AND ACTIVITIES
Lawrence Wilfred MARTZ
- 1440 JWH02/03P/A15-002**
RELEVANCE OF PREDICTIONS FOR WATER RESOURCES MANAGEMENT
Matthias Wolfgang SCHMITT, Martin KAUPÉ
- 1530 BREAK**
- 1600 JWH02/03P/A15-003**
BRIDGING THE GAP BETWEEN HYDROCLIMATOLOGICAL RESEARCH AND WATER RESOURCE DECISION MAKING: LESSONS LEARNED FROM GAPP/ GCIP RESEARCH
Richard G. LAWFORD
- 1630 JWH02/03P/A15-004**
HYDROMETEOROLOGICAL STUDY IN THE MURRUMBIDGEE RIVER CATCHMENT IN THE MURRAY-DARLING BASIN
Francis CHIEW, Harald RICHTER, Andrew WESTERN, Graham MILLS, Alan SEED, Michael MANTON
- 1700 JWH02/03P/A15-005**
INFUSION OF GEWEX SCIENCE INTO HYDROLOGIC FORECASTING FOR THE UNITED STATES ADVANCED HYDROLOGIC PREDICTION SERVICES (AHPS)
John SCHAAKE
- 1730 JWH02/03P/A15-006**
MACKENZIE GEWEX STUDY RESULTS IMPROVE STREAMFLOW FORECASTING FOR HYDROPOWER GENERATION
Christopher D. SPENCE, Dan GRABKE, Corrinne MIELKO

JSM02 Thursday, July 3 PM

THE SURFACE OCEAN-LOWER ATMOSPHERE STUDY (IAMAS [ICACGP, ICPM], IAPSO)

Location: Site B, Room 22

Presiding Chairs: T. Church, K. Toyota

- 1400 JSM02/03P/B22-001**
OCEANIC SOURCES OF HALOCARBONS IN OLIGOTROPHIC REGIONS
Denise SMYTHE-WRIGHT
- 1440 JSM02/03P/B22-002**
ATMOSPHERIC TRACE GAS MEASUREMENTS OVER NW PACIFIC
Shungo KATO, Yoshizumi KAJII, Takeshi UI, Mitsuo UEMATSU
- 1500 JSM02/03P/B22-003**
REACTIVE GASEOUS MERCURY FORMATION OVER THE NORTH PACIFIC OCEAN: INFLUENCE OF ENVIRONMENTAL PARAMETERS ON ELEMENTAL MERCURY OXIDATION IN THE MARINE BOUNDARY LAYER
Fabien J.G. LAURIER, Robert P. MASON, Lindsay WHALIN
- 1520 JSM02/03P/B22-004**
DISTRIBUTIONS AND FLUXES OF METHANE IN THE EAST CHINA SEA AND THE YELLOW SEA IN SPRING
Guiling ZHANG, Jing ZHANG, Hongtao CHEN, Yubao KANG
- 1540 BREAK**
- 1600 JSM02/03P/B22-005**
INTERACTION OF MINERAL AEROSOL WITH NITROGEN OXIDES IN THE MARINE BOUNDARY LAYER OVER THE NORTH PACIFIC
Mitsuo UEMATSU, Takeshi UI, Yukiko UYAMA, Atsushi OOKI, Motoki SASAKAWA, Tokuhiko NAKAMURA, Teruaki HAYANO, Hiroshi HATTORI
- 1620 JSM02/03P/B22-006**
A POSSIBLE LINK BETWEEN SEA-SALT AEROSOLS, HALOGEN CHEMISTRY, AND DIMETHYL SULFIDE DEGRADATION PATHWAYS IN THE MARINE BOUNDARY LAYER
Kenjiro TOYOTA, Yugo KANAYA, Masaaki TAKAHASHI, Hajime AKIMOTO
- 1640 JSM02/03P/B22-007**
INFLUENCE OF BLACK SEA AND LOCAL BIOGENIC ACTIVITY ON THE SEASONAL VARIATION OF AEROSOL SULFUR SPECIES IN THE EASTERN MEDITERRANEAN ATMOSPHERE
Nilgun N. KUBILAY, Mustafa KOCAK, Tulay COKACAR, Temel OGUZ, Giorgos KOUVARAKIS, Nikos MIHALOPOULOS
- 1700 JSM02/03P/B22-008**
NEW INSIGHTS IN VERTICAL TRANSPORT AND CHEMICAL COMPOSITION OF THE TROPOSPHERIC BOUNDARY LAYER AT A SALT LAKE (DEAD SEA, ISRAEL)
Jutta Angelika ZINGLER, Mordechai PELEG, Valeri MATVEEV, Eran TASS, Ulrich PLATT, Menachem LURIA

JSM07 Thursday, July 3 PM

APPLICATION OF GPS TECHNIQUES IN THE ATMOSPHERE (IAMAS [ICMA], IAGA, IAG)

Location: Site B, Room 23

Presiding Chairs: T. Tsuda, Y. Shoji

- 1400 JSM07/03P/B23-001 Invited**
GPS PROFILING OF TROPOSPHERIC TEMPERATURE AND WATER VAPOR FROM THE OVERSTED SATELLITE
Per HOEG, Larsen Bergeton GEORG, Sorensen Bjaert MARTIN, Rasmussen Grove JAKOB
- 1435 JSM07/03P/B23-002**
A COMPARATIVE ANALYSIS OF WAVE STRUCTURES FROM SAC-C AND CHAMP OCCULTATION PROFILES AND RADIOSONDES IN NORTHERN TERRITORY, AUSTRALIA
Alejandro DE LA TORRE, Toshitaka TSUDA, George A. HAJJ
- 1455 JSM07/03P/B23-003**
STORM TIME TEC VARIATIONS AT GPS RECEIVERS COVERING MEDITERRANEAN AND UK AREAS
Ljiljana R. CANDER, Luigi CIRAOLO
- 1515 JSM07/03P/B23-004**
DERIVATION OF THE WATER VAPOR CONTENT FROM GNSS RADIO OCCULTATION OBSERVATIONS
Francesco VESPE, Catia BENEDETTO
- 1535 BREAK**
- 1600 JSM07/03P/B23-005 Invited**
AN ANALYSIS OF GPS OCCULTATIONS FROM MT. TSUKUBA AND MT. FUJI
Cinzia ZUFFADA, George HAJJ, Toshitaka TSUDA, Yoshinori SHOJI, Yuichi AOYAMA

1635 JSM07/03P/B23-006
SIMULATION ON REQUIREMENTS AND OBSERVATIONAL PLAN FOR AIRCRAFTGPS DOWN-LOOKING EXPERIMENTS IN 2003
Takayuki YOSHIHARA, Naoki FUJII, Kazuaki HOSHINO, Keisuke MATSUNAGA, Shinji SAITOH, Toshitaka TSUDA, Yuichi AOYAMA

1655 JSM07/03P/B23-007 Invited
DEMONSTRATION OF GPS ATMOSPHERIC MONITORING FROM GROUND AND SPACE WITHIN THE GERMAN GASP PROJECT
Christoph REIGBER, Gerd GENDT, Jens WICKERT, Georg BEYERLE, Galina DICK, Roman GALAS, Rolf KOENIG, Markus RAMATSCHI, Torsten SCHMIDT, Maria TOMASSINI

1730 JSM07/03P/B23-008
IMPACT OF GPS-IPW DATA ON RUC FORECASTS
Stan BENJAMIN, Tracy Lorraine SMITH, Seth I. GUTMAN, Barry E. SCHWARTZ

JSM13 Thursday, July 3 PM

DATA ASSIMILATION FOR ATMOSPHERIC AND OCEANIC PROCESSES (IAMAS [ICDM, ICCP], IAHS, IAPSO, IAGA, IAG, SPARC)
Location: Site C, Room 28

Presiding Chairs: O. Anderson, K. Haines

OCEAN DATA ASSIMILATION

1400 JSM13/03P/C28-001 Invited
ON THE PHYSICAL CONSISTENCY OF DATA ASSIMILATION AND A COMPUTATIONALLY EFFECTIVE APPROXIMATE SMOOTHER
Ichiro FUKUMORI

1430 JSM13/03P/C28-002
WATER TRANSFORMATIONS IN A GLOBAL OCEAN MODEL WITH DATA ASSIMILATION
Keith HAINES, Alan FOX

1450 JSM13/03P/C28-003
REDUCED ORDER INFORMATION FILTER: AN ASSIMILATION STRATEGY FOR MESO-SCALE FEATURES NEAR SEA SURFACE
Toshio Michael CHIN

1510 JSM13/03P/C28-004
ASSIMILATION OF INTERMEDIATE FLOAT DATA INTO A BAROTROPIC SHALLOW WATER MODEL USING AN APPROXIMATE KALMAN FILTER
You-ichiro SASAJIMA, Naoki HIROSE

1530 JSM13/03P/C28-005
SEASONAL PREDICTION WITH THE ENSEMBLE KALMAN FILTER
James ANNAN, T. AWAJI, H. IGARASHI, Y. SHEN, N. SUGIURA

1550 BREAK

1610 JSM13/03P/C28-006 Invited
LARGE-SCALE AND REGIONAL OCEAN CIRCULATION ESTIMATES AND SHORT-TERM FORECASTS OBTAINED BY DATA ASSIMILATION
Pierre J. DE MEY

1640 JSM13/03P/C28-007
MESOSCALE VARIABILITIES IN THE KUROSHIO RECONSTRUCTED BY THE VARIATIONAL ASSIMILATION OF ALTIMETER DATA
Motoyoshi IKEDA, Akemi YAMADA

1700 JSM13/03P/C28-008
USING AN ADJOINT METHOD TO STUDY THE SENSITIVITY OF THE NORTH ATLANTICSURFACE HEAT BUDGET TO SEASONAL ATMOSPHERIC FORCING
Nadia K. AYOUB, Patrick HEIMBACH

1720 JSM13/03P/C28-009
ADIABATICALLY CORRECTING AN EDDY-PERMITTING MODEL OF THE NORTH ATLANTIC USING LARGE-SCALE HYDROGRAPHIC DATA
Carsten EDEN, Richard J. GREATBATCH, Claus W. BOENING

1740 JSM13/03P/C28-010
HINDCASTING NORTH PACIFIC OCEAN CIRCULATION USING THE REPRESNTER DATA ASSIMILATION TECHNIQUE
Tsuyoshi WAKAMATSU

JSM17 Thursday, July 3 PM

MIXING AND ITS PARAMETERIZATION IN GEOPHYSICAL FLUIDS (IAMAS, IAPSO, IAHS)
Location: Site C, Room 31

Presiding Chairs: B.R. Sutherland, T. McDougall

1400 JSM17/03P/C31-001 Invited
A PARAMETERIZATION OF GRAVITY WAVE DIFFUSION COEFFICIENTS FOR GLOBAL MODELS
M.Joan ALEXANDER, Tim J. DUNKERTON

1430 JSM17/03P/C31-002
DISSIPATION RATE CORRECTION METHODS
Pablo HUQ, Edward J. STEWART

1450 JSM17/03P/C31-003
SECOND-ORDER WKB MODEL OF MOUNTAIN WAVE DRAG FOR SHEARED WINDS
Miguel A.C. TEIXEIRA, Pedro M.A. MIRANDA, Maria Antonia VALENTE

1510 JSM17/03P/C31-004
LABORATORY INVESTIGATION OF FINE STRUCTURE AND TRANSPORT PROPERTIES OF 2D STRATIFIED WAKES
Vladimir Y. MITKIN, Yuli D. CHASHECHKIN

1530 BREAK

1550 JSM17/03P/C31-005
RIGOROUS BOUNDS ON THE BUOYANCY FLUX IN STABLY STRATIFIED COUETTE FLOW AT ARBITRARY REYNOLDS NUMBER
Colm-cille P. CAULFIELD, Wenbo TANG, Stephen C. PLASTING

1610 JSM17/03P/C31-006
ENTRAINMENT OF ROTATING CONVECTION
Dailin WANG

1630 JSM17/03P/C31-007 Invited
ON THE PARAMETERISATION OF EDDIES IN OCEANMODELS
Peter Douglas KILLWORTH

JSP02 Thursday, July 3 PM

NEW PERSPECTIVES OF COUPLED TROPICAL OCEAN-ATMOSPHERE DYNAMICS AND PREDICTABILITY (IAPSO, IAMAS, CLIVAR)
Location: Site B, Room 20

Presiding Chairs: I.S. Kang, W. Kessler

1400 JSP02/03P/B20-001
INTERACTIVE FEEDBACK BETWEEN THE INDIAN OCEAN AND ENSO
In-Sik KANG, Jong-Seong KUG

1420 JSP02/03P/B20-002 Invited
IS THE TBO A COUPLED ATMOSPHERE-OCEAN MODE IN THE ASIAN-AUSTRALIAN MONSOON REGION?
Tim LI, Ping LIU, Xiuohua FU, Qing ZHANG, Bin WANG

1440 JSP02/03P/B20-003 Invited
POAMA: AN AUSTRALIAN OCEAN-ATMOSPHERE MODEL FOR CLIMATE PREDICTION
Neville Ross SMITH, Oscar ALVES, Guomin WANG, Aihong ZHONG, Andreas SCHILLER, Gary MEYERS, Faina TSEITKIN, Stuart GODFREY

1500 JSP02/03P/B20-004
THE PREDICTABILITY OF ENSO TELECONNECTIONS: THE ROLE OF THE REMOTE OCEAN RESPONSE AND THE INFLUENCE OF INDIAN OCEAN SSTs ON THE ATLANTICSECTOR
Hilary SPENCER, Julia SLINGO, Rowan SUTTON

1515 JSP02/03P/B20-005
MECHANISMS OF EL NINO EVENTS AND THEIR IMPACTS ON THE INDIAN SUMMER MONSOON
Kazuo KURIHARA

1530 BREAK

1550 JSP02/03P/B20-006
AIR-SEA INTERACTIONS AT INTRASEASONAL TIMESCALES OVER THE INDIAN OCEAN REGION
Jean Philippe DUVEL, Remy ROCA, Jerome VIALARD

1610 JSP02/03P/B20-007 Invited
ROLE OF THE INDIAN OCEAN SALINITY IN MONSOON AND ENSO VARIABILITY AS SIMULATED BY A COUPLED OCEAN-ATMOSPHERE SYSTEM
Claire M. PERIGAUD, David J. NEELIN, Julian P. MCCREARY

1630 JSP02/03P/B20-008
INFLUENCE OF SALINITY ON THE INDIAN OCEAN VARIABILITY
Sebastien G. MASSON, Jean-Philippe BOULANGER, Christophe E. MENKES, Pascale DELECLUSE, Jingjia LUO, Eric GUILYARDI, Silvio GUALDI, Swadhin BEHERA, Toshio YAMAGATA

1645 JSP02/03P/B20-009
RECTIFICATION OF AIR-SEA INTERACTION ON THE SIMULATION OF TROPICAL INTRASEASONAL OSCILLATION IN BOREAL SUMMER
Xiuhua FU, Bin WANG

1700 JSP02/03P/B20-010
A MODEL STUDY OF THE DYNAMICAL RESPONSE OF THE INDIAN SUMMER MONSOON TO THE TROPICAL SST FORCING
Milind MUJUMDAR, R. KRISHNAN, Arun CHAKRABORTY, Swadhin K. BEHERA

1715 JSP02/03P/B20-011
 GLOBAL TELECONNECTION OF ITCZ HEAT SOURCE AND CIRCULATION ON
 INDIAN SUMMER MONSOON
 Hamza VARIKODEN, Babu C A

JSP02-Posters Thursday, July 3 PM

**NEW PERSPECTIVES OF COUPLED TROPICAL OCEAN-
 ATMOSPHERE DYNAMICS AND PREDICTABILITY (IAPSO,
 IAMAS, CLIVAR)**
 Location: Site D

1400-017 JSP02/03P/D-001 Poster
 RELATIONSHIP BETWEEN UPPER OCEAN HEAT CONTENT ANOMALY AND
 WIND STRESS CURL IN THE WESTERN TROPICAL PACIFIC AND ITS ASPECT
 OF DECADEAL VARIABILTY
 Takuya HASEGAWA, Kimio HANAWA

1400-018 JSP02/03P/D-002 Poster
 SST ASSIMILATION EXPERIMENT FOR TROPICAL PACIFIC
 Youmin TANG, Richard KLEEMAN

1400-019 JSP02/03P/D-003 Poster
 COUPLED MODES OF VARIABILITY OF TROPICAL OCEAN SUBSURFACE
 THERMAL FIELDS AND DYNAMICAL COMPONENTS OF THE ATMOSPHERE:
 IMPORTANCE TO AFRICAN AND SOUTH AFRICAN CLIMATE
 Abebe YESHANEW

1400-020 JSP02/03P/D-004 Poster
 THE REMOTE INFLUENCE OF EL NINO AND LA NINA ON THE TROPICAL
 ATLANTIC AIR-SEA SYSTEM
 Yoshimitsu CHIKAMOTO, Youichi TANIMOTO

1400-021 JSP02/03P/D-005 Poster
 SUMMERTIME SUBTROPICAL HIGHS IN THE NORTHERN HEMISPHERE AND
 THE ASSOCIATED AIR-SEA INTERACTION
 Takafumi MIYASAKA, Hisashi NAKAMURA

1400-022 JSP02/03P/D-006 Poster
 RELATIONSHIP BETWEEN THE TIMING OF ONSET OF EL NINO AND
 SUBSEQUENT EVOLUTION
 Takanori HORII, Kimio HANAWA

JSP05 Thursday, July 3 PM

WORLDWIDE SEA LEVEL CHANGE (IAPSO, IAG)
 Location: Site C, Room 30

Presiding Chair: C.L. Provost

1400 JSP05/03P/C30-001
 OCEANIC CIRCUMPOLAR TRANSPORT RESPONSE TO LARGE-SCALE
 FORCING BY THE SOUTHERN HEMISPHERE ANNULAR MODE
 Michael Paul MEREDITH, Philip L. WOODWORTH, Chris W. HUGHES, Tom
 WHITWORTH, Alex PYNE

1420 JSP05/03P/C30-002
 INFLUENCE OF LARGE-SCALE ATMOSPHERIC CIRCULATION ON THE
 EUROPEAN SEA LEVEL: RESULTS FROM SINGULAR SPECTRUM ANALYSIS
 AND WAVELET TRANSFORM
 Svetlana JEVREJEVA, Sarah WAKELIN, John MOORE, Roger FLATHER, Phil
 WOODWORTH, Aslak GRINSTED, Jane WILLIAMS

1440 JSP05/03P/C30-003
 OCCURRENCE OF MESOSCALE EDDIES IN THE NORTHERN ARABIAN SEA
 DURING WINTER
 Somasundar KROTHAPALLI

1500 JSP05/03P/C30-004
 TIDAL REGIME IN VUNG TAU, VIETNAM
 Dong Phuong TRAN

1520 BREAK

1550 JSP05/03P/C30-005
 PROXIMITY AND COLLINEARITY COEFFICIENTS: AN APPLICATION TO
 PSMSL SERIES
 Afranio Rubens DE MESQUITA, Carlos Ausguto De Sampaio FRANÇA, Marco
 Antonio CORRÊA

1610 JSP05/03P/C30-006
 TIDE ANALYSIS VIA APPLICATION OF AUTO-COVARIANCE FUNCTIONCASE
 STUDY: TIDAL ANALYSIS OF THE TIDE GAUGES STATIONS OF PERSIAN
 GULF AND OMAN SEA (1991-2002)
 Kamyar SHOJAIL, Alireza A. ARDALAN

1630 JSP05/03P/C30-007
 SEA LEVEL CHANGES IN THE CHINA SEA
 Manchun CHEN

JSS03 Thursday, July 3 PM

**LONG-TERM IN-SITU OCEAN OBSERVATORIES AND
 OBSERVATIONS (IASPEI, IAG, IAGA, IAPSO, ION)**
 Location: Site A, Room 13

Presiding Chairs: A.D. Chave, H. Mikada

1400 JSS03/03P/A13-001 Invited
 THE MONTEREY OCEAN BOTTOM BROADBANDSEISMIC STATION (MOBB):
 INSTALLATION AND FIRST RESULTS
 Barbara ROMANOWICZ, Robert UHRHAMMER, Debra STAKES, Douglas
 NEUHAUSER, Paul MCGILL, Tony RAMIREZ

1420 JSS03/03P/A13-002
 AN APPROACH FOR MOBILE AND REAL-TIME OBSERVATION ON THE
 SEAFLOOR
 Katsuyoshi KAWAGUCHI, Hitoshi MIKADA, Hiroko SUGIOKA, Hiroyuki
 MATSUMOTO

1435 JSS03/03P/A13-003
 FIBER-OPTIC SEISMIC OBSERVATIONS WITHOUT UNDERWATER POWER
 SUPPLY
 Hitoshi MIKADA, Yugo SHINDOU, Takashi YOSHIKAWA, Akito ARAYA, Kenichi
 ASAKAWA

1450 JSS03/03P/A13-004 Invited
 THE OCEAN BOTTOM SEISMOMETERS FOR LONG-TERM SEAFLOOR
 OBSERVATIONS
 Toshihiko KANAZAWA, Hajime SHIOBARA, Masashi MOCHIZUKI, Tomoki
 WATANABE, Tomoaki YAMADA

1510 JSS03/03P/A13-005 Invited
 THE FRENCH-US PROGRAM OF SEAFLOOR GEOMAGNETIC
 OBSERVATORIES
 Pascal TARITS, Mioara MANDEA, Alan D. CHAVE, Xavier GARCIA, Michel
 CALZAS, Christine DREZEN, Alain DUBREULE, John BAILEY, Jean H. FILLOUX

1530 JSS03/03P/A13-006
 SEAFLOOR GEOMAGNETIC OBSERVATORY OPERATED IN THE
 NORTHWEST PACIFIC
 Hiroaki TOH, Yozo HAMANO, Masahiro ICHIKI, Hisayoshi SHIMIZU, Hisashi
 UTADA

1545 JSS03/03P/A13-007
 ON MEASURING THE CORE ELECTRIC FIELD USING SUBMARINE CABLES
 Alan D. CHAVE, Hisayoshi SHIMIZU, Hisashi UTADA

1600 JSS03/03P/A13-008
 MEASURING THE ELECTRIC FIELD OF THE EARTH BY AN OCEAN BOTTOM
 INSTRUMENT WITH A LONG (10-100 KM) CABLE
 Hisashi UTADA, Hisayoshi SHIMIZU, Hitoshi MIKADA, Katsuyoshi
 KAWAGUCHI, Tadanori GOTO

1615 BREAK

1630 JSS03/03P/A13-009 Invited
 TECHNOLOGY FOR REGIONAL-SCALE CABLED SEAFLOOR
 OBSERVATORIES: NEPTUNE
 Bruce M. HOWE, Patricia M. BEAUCHAMP, Alan D. CHAVE, Severin J. GAUDET,
 Harold KIRKHAM, Andrew MAFFEI, Gene MASSION, Timothy MCGINNIS, Peter
 PHIBBS, David RODGERS

1650 JSS03/03P/A13-010
 2003 UPGRADES AND ADDITIONS TO THE HAWAII-2 OBSERVATORY
 Alan D. CHAVE, K. SMITH, S. BEAULIEU, J.H. FILLOUX, P. TARITS, M.
 MANDEA, F. K. DUENNEBIER, R. BUTLER

1705 JSS03/03P/A13-011
 APPROACH TO LONG-TERM BOREHOLE OBSERVATIONS OF TEMPERATURE
 AND SELF-POTENTIAL IN THE OCEAN CRUST
 Keizo SAYANAGI, Masataka KINOSHITA, Makoto UYESHIMA, Hitoshi MIKADA,
 Toshiyasu NAGAO, Makoto YAMANO, Yoichi NODA

1720 JSS03/03P/A13-012 Invited
 LONG-TERM SEAFLOOR OBSERVATORIES IN THE MEDITERRANEAN:
 EXPERIMENTS AND DATA
 Paolo FAVALI, Laura BERANZOLI, Michael MARANI, Claude MILLOT, Hans
 GERBER, Guenter CLAUSS, Torsten DAHM, Ernst FLUEH, Francesco
 GASPARONI, Jean MARVALDI, Jean-Michel COUDEVILLE

1740 JSS03/03P/A13-013 Invited
 THE EVOLUTION OF THE NORTHEAST OBSERVING SYSTEM FOR THE
 UNITED STATES
 Scott M. GLENN, Oscar M. SCHOFIELD, Tommy D. DICKEY

JSS04 Thursday, July 3 PM

THERMALLY CONTROLLED PROCESSES WITHIN THE EARTH (IASPEI, IAVCEI, IAGA, IAPSO, IAMAS, IAHS)

Location: Site A, Room 11

Presiding Chairs: D.S. Chapman, W.D. Mooney

1400 JSS04/03P/A11-001
MANTLE XENOLITHS AND THICK LITHOSPHERE IN THE FENNOSCANDIAN SHIELD

Ilmo T. KUKKONEN, Petri PELTONEN

1420 JSS04/03P/A11-002
THE LIQUID-GAS TRANSITIONS IN HIGH-TEMPERATURE FLUIDS AND ITS ROLE IN THE EARTH CRUST FORMATION

Alexander I. MALYSHEV

1440 JSS04/03P/A11-003
THE NON-EXISTENCE OF FLAT WADATI-BENIOFF ZONES IN THE ANDES REGION

Miguel MUÑOZ

1500 JSS04/03P/A11-004
MAGNETIC CRUSTAL THICKNESS FROM THE VARISCAN UNITS OF CENTRAL EUROPE TO THE SARDINIAN CHANNEL

Paolo CHIOZZI, Jun MATSUSHIMA, Yasukuni OKUBO, Vincenzo PASQUALE, Massimo VERDOYA

1520 JSS04/03P/A11-005
ANALYSIS OF MAGNETIC AND GRAVITY DATA ANOMALIES AND GEOTHERMAL FEATURES OF MOROCCO

Abdelkrim M. RIMI, Yasukuni OKUBO, Jun MATSUSHIMA, Ahmed MANAR , Anne WINCKEL

1540 BREAK

1600 JSS04/03P/A11-006
THERMAL AND MECHANICAL STRUCTURE OF THE NORTH CHINA LITHOSPHERE

Yang WANG

1620 JSS04/03P/A11-007
3-D THERMAL STRUCTURE OF THE EXTENSION REGION (SHANXI-HEBEI) IN NORTH CHINA AND ITS IMPLICATION

Shao Xian ZANG, Yong Gang LIU, Rong Qiang WEI

1640 JSS04/03P/A11-008
ASSESSING GROUND SURFACE TEMPERATURE CHANGES IN MOUNTAINOUS PERMAFROST AREAS

Thomas KOHL, Stephan GRUBER

1700 JSS04/03P/A11-009
A LITHOSPHERIC HEAT FLOW CURVE DEDUCED FROM THE LABORATORY MEASUREMENTS OF SEISMIC WAVE ATTENUATION AND TEMPERATURE DATA OF THREE ROCK TYPES : SANDSTONE, LIMESTONE AND SHALE IN NIGERIA

Deborah Oluwaseun OLORODE, Ebum Olufunmilayo ONI

JSS05 Thursday, July 3 PM

PHYSICS AND CHEMISTRY OF EARTH MATERIALS (IASPEI, IAVCEI, IAGA)

Location: Site A, Room 4

Program Group: I. Jackson, D.B. Dingwell, T. Yagi

Presiding Chairs: I. Jackson, T. Yagi

GENERAL MINERALOGY, MINERAL AND ROCK PHYSICS

1400 JSS05/03P/A04-001
LABORATORY AND SEAFLOOR EXPERIMENTS ON HYDROCARBON GAS HYDRATES

Stephen Homer KIRBY

1420 JSS05/03P/A04-002
VISCOSITY MEASUREMENTS OF HYDROUS SILICATE MELTS USING FIBER ELONGATION METHOD

Akio GOTO, Hiromitsu TANIGUCHI, Arashi KITAKAZE

1440 JSS05/03P/A04-003
LITHIUM ISOTOPIC COMPOSITION OF HIMU OCEANIC ISLAND BASALTS: IMPLICATIONS FOR THE ORIGIN OF HIMU COMPONENT

Yoshiro NISHIO, Shun'ichi NAKAI, Tetsuo KOGISO, Hans G. BARSCZUS

1500 JSS05/03P/A04-004
DISAPPEARANCE OF AL-HOLE CENTER IN SURFACE DISORDERED LAYER OF QUARTZ PARTICLES

Akihiro TAKEUCHI, Hiroyuki NAGAHAMA, Tetsuo HASHIMOTO

1520 JSS05/03P/A04-005
PITFALLS OF THE DISSOLUTION OF WATER IN NOMINALLY ANHYDROUS MINERALS

Friedemann T. FREUND, Friedemann T. FREUND, Minoru M. FREUND

1540 JSS05/03P/A04-006
FABRIC TRANSITIONS OF QUARTZ C-AXIS: INFLUENCE OF HYDROGEN DEFECTS

Jun MUTO, Hiroyuki NAGAHAMA, Tetsuo HASHIMOTO

1600 JSS05/03P/A04-007
HIGH-PRESSURE PHASE STABILITY OF CHROMIUM CONTAINING NATURAL KYANITE UPTO 14 GPa

G.-PARTHASARATHY, R.-SRINIVASAN

JSS05-Posters Thursday, July 3 PM

PHYSICS AND CHEMISTRY OF EARTH MATERIALS (IASPEI, IAVCEI, IAGA)

Location: Site D

1600-023 JSS05/03P/D-001 Poster
MONAZITE IN PUMICE OF TOYA PYROCLASTIC FLOW DEPOSIT, SOUTHWEST HOKKAIDO, JAPAN.

Yasuhiro ITO, Takaaki FUKUOKA, Ritsuo MIYAWAKI, Kazumi YOKOYAMA, Satoshi MATSUBARA, Kenji ABE

1600-024 JSS05/03P/D-002 Poster
AMYGDALOIDAL MINERALS IN DECCAN TRAP OF KILLARI AREA, MAHARASHTRA, INDIA: FOCUS ON PHASE STABILITY OF MOGANITE, A NOVEL SILICA POLYMORPH

Gopalakrishna Rao -PARTHASARATHY, Ajit Chand KUNWAR, Ramaswamiah -SRINIVASAN

1600-025 JSS05/03P/D-003 Poster
NATURE OF URANIUM MINERALIZATION IN SEDIMENTARY FORMATIONS AT TONO URANIUM DEPOSIT, JAPAN: SIGNIFICANCE FOR MODELING URANIUM TRANSPORT AND MOBILITY

Melissa Ann BERKE, M.A. MCKIBBEN, R.C. ARTHUR, K. OTA, T. IWATSUKI

1600-026 JSS05/03P/D-004 Poster
PB-SR-ND-HE ISOTOPIC COMPOSITIONS OF THE COOK-AUSTRAL ISLANDS: EVIDENCE FOR SHALLOW MANTLE RECYCLING OF SUBDUCTED MATERIAL

Yoichi NAKAMURA, Wayne R. PREMO, Mitsunobu TATSUMOTO

1600-027 JSS05/03P/D-005 Poster
THE VISCOSITY OF DIOPSIDE - POTASSIUM FELDSPAR MELT SYSTEM

Satoshi KANASUGI, Hiromitsu TANIGUCHI, Akio GOTO

1600-028 JSS05/03P/D-006 Poster
THERMAL DIFFUSIVITY AND THERMAL CONDUCTIVITY OF EARTH MATERIALS UNDER PRESSURE

Masahiro OSAKO, Eiji ITO, Akira YONEDA

1600-029 JSS05/03P/D-007 Poster
EQUATION OF STATE OF SODIUM CHLORIDE (B1): THERMODYNAMICAL APPROACH

Tatsuya SUMITA, Akira YONEDA

1600-030 JSS05/03P/D-008 Poster
ANALYSIS OF THERMAL PRESSURE FOR GEOPHYSICAL MINERAL(MGO) AT LOWER MANTLE TEMPERATURE AND PRESSURE CONDITIONS

Kripa Shanker SINGH, JAI SHANKER

1600-031 JSS05/03P/D-009 Poster
COMPRESSIONAL WAVE VELOCITY MEASUREMENTS IN MAFIC-ULTRAMAFIC ROCKS FROM KOHISTAN ARC UP TO 1.0 GPa AND 1000 °C

Yoshio KONO, Masahiro ISHIKAWA, Takashi NAKAJIMA, Said Rahim KHAN, Makoto ARIMA

1600-032 JSS05/03P/D-010 Poster
BRITTLE-DUCTILE TRANSITION IN CALCITE RICH ROCKS: ELASTIC WAVE VELOCITIES EVOLUTION

Alexandre SCHUBNEL, Jérôme FORTIN, Luigi BURLINI, Yves GUÉGUEN

1600-033 JSS05/03P/D-011 Poster
ELASTIC WAVE VELOCITIES OF IRON-BEARING RINGWOODITE (MG_{0.8}FE_{0.2})₂SIO₄ TO 13 GPa

Yuji HIGO, Baosheng LI, Toru INOUE, Tetsuo IRIFUNE, Robert C. LIEBERMANN

1600-034 JSS05/03P/D-012 Poster
MELTING RELATIONSHIPS OF FE-C-S SYSTEM AT 5 GPa AND CARBON IN THE CORE

Satoru URAKAWA, Masaki KATO, Tomoo KATSURA

1600-035 JSS05/03P/D-013 Poster
SPECTROSCOPIC AND PETROLOGICAL STUDIES ON ALLENDE METEORITE: POORLY GRAPHITIZED CARBON, ITS ORIGIN AND GRAPHITIZATION TEMPERATURE IN HOST METEORITE.

Shadi R. SHARMA, Pinnelli SR PRASAD, Jupudi M. RAO

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1600-036 JSS05/03P/D-014 Poster
ELECTROMAGNETIC PHENOMENA DURING THE DEFORMATION OF IONIC CRYSTALS AND ROCK SAMPLES BEFORE FAILURE.
Vassilios E. HADJICONTIS, Claire A. MAVROMATOU, Yuji ENOMOTO



G01-Posters Thursday, July 3 PM

POSITIONING. MEETING OF IAG SECTION I

Location: Site D

1400-160 G01/03P/D-001 Poster
JOINT TREATMENT OF RANDOM VARIABILITY AND IMPRECISION IN GPS DATA ANALYSIS
Hansjoerg KUTTERER

1400-161 G01/03P/D-002 Poster
ACCELERATOR DATUM DETERMINATION USING GPS TECHNOLOGY
Dirk BEHREND, Catherine LE COCQ

1400-162 G01/03P/D-003 Poster
INTEGRATED VEHICLE NAVIGATION SYSTEM WITH GPS, DR AND MAP MATCHING
Wu CHEN, Meng YU, Zhilin LI, Yongqi CHEN

1400-163 G01/03P/D-004 Poster
ASI_MED: A CONTRIBUTION OF SPACE GEODESY TECHNIQUE COMBINATION TO THE MONITORING OF DEFORMATION IN THE MEDITERRANEAN AREA
Roberto DEVOTI, Carmela FERRARO, Roberto LANOTTE, Vincenza LUCERI, Cecilia SCIARRETTA, Giuseppe BIANCO

1400-164 G01/03P/D-005 Poster
KINEMATIC RELATIVE POSITIONING: HOW FAR CAN WE GO?
Joao Francisco GALERA MONICO, Joao Carlos CHAVES

1400-165 G01/03P/D-006 Poster
POSITIONING SERVICES OF THE CATNET NETWORK
Julia' TALAYA, Ernest BOSCH, Assumpcio' TERMENS, Carme PARAREDA

1400-166 G01/03P/D-007 Poster
TIME EVOLUTION OF THE TERRESTRIAL REFERENCE FRAME
Detlef ANGERMANN, Manuela KRUEGEL, Barbara MEISEL, Horst MUELLER, Volker TESMER

1400-167 G01/03P/D-008 Poster
PROJECT VERA AND ITS GEODETIC VLBI OBSERVATIONS
Yoshiaki TAMURA, Vera Group

1400-168 G01/03P/D-009 Poster
NEW GEONET SYSTEM - TOWARD REAL-TIME CRUST MONITORING
Atsushi YAMAGIWA, Shouichi MATSUMURA, Syuujiro NISHI, Yuki HATANAKA, Kazushi MARUYAMA, Masayoshi ISHIMOTO, Basara MIYAHARA, Fumio SUGA, Kazumi IWATA

1400-169 G01/03P/D-010 Poster
INTRODUCTION OF THE ARTIFICIAL INTELLIGENCE OF OPTIMISING IMPORTANT GEODETIC APPLICATIONS
Hussain A. SALEH

1400-170 G01/03P/D-011 Poster
OASYS - INTEGRATED OPTIMIZATION OF LANDSLIDE ALERT SYSTEMS
Heribert KAHMEN, Wolfgang NIEMEIER

1400-171 G01/03P/D-012 Poster
PERIODICAL LOCAL LOAD EFFECTS AND GEOCENTRIC POSITIONING OF CANANÉIA TIDE GAUGE, BRAZIL
Silvio R.S. DE FREITAS, Silvia H.S. SCHWAB, Jorge L.A. TRABANCO, Denizar BLITZKOW

1400-172 G01/03P/D-013 Poster
HORIZONTAL CRUSTAL MOTION ESTIMATES FOR THE UK INFERRED FROM GPS: PRELIMINARY RESULTS
Alex I. WAUGH, F. Norman TEFERLE, Richard M. BINGLEY, Alan H. DODSON

1400-173 G01/03P/D-014 Poster
POSSIBLE DEVELOPMENT OF A GPS USER WARNING/MITIGATION MECHANISM AGAINST IONOSPHERIC SCINTILLATION
Marcio Henrique O. AQUINO, Terry MOORE, Alan H. DODSON, Chris HILL, Sam WAUGH

1400-174 G01/03P/D-015 Poster
RESULTS OF THE SIRGAS GPS CAMPAIGN 2000 AND COORDINATE VARIATIONS WITH RESPECT TO THE 1995 SOUTH AMERICAN REFERENCE FRAME
Hermann DREWES, Klaus KANIUTH, Luiz Paulo FORTES, Sonia Maria COSTA

1400-175 G01/03P/D-016 Poster
GPS KINEMATIC POSITIONING USING REFERENCE NETWORK STATIONS
Israel KASHANI, Dorota A. GREJNER-BRZEZINSKA, Pawel WIELGOSZ

1400-176 G01/03P/D-017 Poster
INTEGRATION OF REAL TIME KINEMATIC (RTK) GPS TO HYDROGRAPHIC MAPPING APPLICATIONS OF ARTIFICIAL AND NATURAL WATER BASINS
Ali DÖNMEZ, Birol GUCLUER, Mehmet KOCAMANOGLU, Mehmet FAKIOGLU,

1400-177 G01/03P/D-018 Poster
RTK POSITIONING BY VIRTUAL REFERENCE STATIONS
Gwo-Chyang TSUEI

1400-178 G01/03P/D-019 Poster
CONSISTENCY ANALYSIS OF THE EPN TIME SERIES FOR IMPROVED VELOCITY ESTIMATION
Ambrus KENYERES, Carine BRUYNINX, Georges CARPENTIER

1400-179 G01/03P/D-020 Poster
ABOUT TECHNOLOGY OF THE COMBINED PROCESSING OF SATELLITE NAVIGATION SYSTEMS MEASUREMENTS WITH REMOTE ACCESS FOR LOCAL GEODYNAMIC STUDIES
Petr P. MEDVEDEV, S.V. KRYUKOV

1400-180 G01/03P/D-021 Poster
A RADARGRAMMETRIC SOLUTION TO THE INSAR PHASE AMBIGUITY PROBLEM: IMPLICATIONS FOR THE DERIVATION OF ATMOSPHERIC DELAY
Andrew SOWTER

1400-181 G01/03P/D-022 Poster
DEVELOPMENT OF A MONITORING TECHNIQUE OF ANOMOLOUS CRUSTAL DEFORMATIONS PRECEDING LARGE EARTHQUAKES WITH THE APPLICATION OF KINEMATIC GPS
Kazutoshi SATO, Manabu HASHIMOTO, Yoshinobu HOSO

1400-182 G01/03P/D-023 Poster
TIME SERIES OF SLR STATION POSITIONS: HOW TO HANDLE WITH ORBITAL ERRORS ?
David COULOT, Philippe BERIO, Pierre EXERTIER, Olivier LAURAIN

1400-183 G01/03P/D-024 Poster
INVESTIGATION OF EUROASIAN PLATE DEFORMATIONS USING MODERN OBSERVATIONAL DATA
Inessa E. DANILOVA

1400-184 G01/03P/D-025 Poster
A COMBINED REFERENCE NETWORK FOR SWITZERLAND
Urs MARTI, Elmar BROCKMANN, Andreas SCHLATTER

1400-185 G01/03P/D-026 Poster
EVALUATION OF THE VIBRATIONAL SPECTRUM OF HIGH LEAN TOWERS WITH WIND ELECTRICAL TURBINES
Johannes FABIANKOWITSCH, Heribert KAHMEN, Philipp MATT

1400-186 G01/03P/D-027 Poster
A FUZZY SYSTEM FOR THE ASSESSMENT OF LANDSLIDE MONITORING DATA
Michaela HABERLER

1400-187 G01/03P/D-028 Poster
RESEARCH ON THE GEODETIC DATA STANDARD SYSTEM
Zhiping LU

1400-188 G01/03P/D-029 Poster
DGPS WITH THE USE OF MULTIPLE REFERENCE STATIONS
Mieczysław BAKULA

1400-189 G01/03P/D-030 Poster
ANALYSIS OF ANTARCTIC VLBI EXPERIMENT CARRIED OUT IN SYOWA STATION
Yoshihiro FUKUZAKI, Kazuo SHIBUYA, Koichiro DOI, Axel NOTHNAGEL, Takaaki JIKE, Sachiko IWANO, David L. JAUNCEY, George D. NICOLSON

1400-190 G01/03P/D-031 Poster
CURRENT STATUS OF PSEUDOLITE PRECISE POSITIONING APPLICATIONS
Jinling WANG, Joel BARNES, Hung-Kyu LEE, Chris RIZOS

1400-191 G01/03P/D-032 Poster
CORRELATION BETWEEN GEOLOGIC MODELS AND VLBI SOLUTION
Grigoriy N. GERASIMOV

1400-192 G01/03P/D-033 Poster
GPS HEIGHT CONVERSION BY ARTIFICIAL NEURAL NETWORK METHOD
Shi-Jian ZHOU, Tieding LU

1400-193 G01/03P/D-034 Poster
TRANSFERRING TIDAL DATUM BASED ON GPS HEIGHT SOLUTIONS
Chia-Chyang CHANG, Yuan-Da SUN

1400-194 G01/03P/D-035 Poster
DATUM TRANSFORMATION AND GEOID DETERMINATION EFFECTS IN THE QUALITY OF GEODETIC CONTROL IN THE DEVELOPING COUNTRIES
Kamal Abdellatif ABDALLA

1400-195	G01/03P/D-036	Poster
ESTABLISHING A NEW REFERENCE FRAME IN FINLAND Matti Ville OLLIKAINEN, Hannu KOIVULA, Markku POUTANEN		
1400-196	G01/03P/D-037	Poster
BRAZILIAN VERTICAL NETWORK AND ITS CONNECTION TO SIRGAS VERTICAL DATUM Roberto Teixeira LUZ, Valeria Mendonca GUIMARAES, Maria Cristina Barboza LOBIANCO, Silvio Rogerio Correia de FREITAS		
1400-197	G01/03P/D-038	Poster
ON SYSTEM CALIBRATION COMPARATOR OF THE FINNISH GEODETIC INSTITUTE Mikko TAKALO, Paavo ROUHIAINEN		
1400-198	G01/03P/D-039	Poster
GPS MEASUREMENTS TO INVESTIGATE THE REASON WHY GPS IS LESS ACCURATE IN MOUNTAIN AREAS Mikio SATOMURA, Seiichi SHIMADA, Makiko NISHIKORI, Yukari GOTO		
1400-199	G01/03P/D-040	Poster
TOWARDS A DEVELOPMENT OF AN INNOVATIVE, LOW-COST AND ROBUST GPS ROWING SYSTEM Kefei ZHANG		
1400-200	G01/03P/D-041	Poster
BRAZILIAN IMBITUBA VERTICAL DATUM AND ITS MONITORING WITH THE GEODETIC TIDE GAUGE NETWORK Roberto Teixeira LUZ, Silvio Rogerio Correia de FREITAS, Regiane DALAZOANA		
1400-201	G01/03P/D-042	Poster
THE GEODETIC PROGRAMS AND REFERENCE SYSTEMS IN TAIWAN AREA Ruey-Gang CHANG, Yehn-Hurng LEE, Shin-Hua LIN, Kuan LI-CHYN		
1400-202	G01/03P/D-043	Poster
THE NEW NATIONAL REFERENCE SYSTEM MONREF 97 IN MONGOLIA Mijiddorj SAANDARI, M. ENKHBAYAR, Lotti JIVALL, Bo-Gunnar REIT, Bengt ANDERSSON		
1400-203	G01/03P/D-044	Poster
ON THE PROBLEM OF TATARSTAN LOCAL GEOID DETERMINATION USING GPS/LEVELLING DATA Ruslan V. KOMAROV		
1400-204	G01/03P/D-045	Poster
VERTICAL REPEATABILITY OF GPS MEASUREMENTS IN THE TSUKUBA GPS/MET DENSE-NETWORK CAMPAIGNS Seiichi SHIMADA		
1400-205	G01/03P/D-046	Poster
ANALYSIS OF COMPUTATIONAL STABILITY ON GPS BASELINE VECTORS Jenn-Taur LEE		
1400-206	G01/03P/D-047	Poster
11 YEARS OF THE MEXICAN NATIONAL ACTIVE GEODETIC NETWORK Antonio HERNANDEZ-NAVARRO		
1400-207	G01/03P/D-048	Poster
ACTIVITIES RELATED TO THE MATERIALIZATION OF A NEW VERTICAL SYSTEM FOR ARGENTINA Eduardo A. LAURIA		
1400-208	G01/03P/D-049	Poster
PROJECT OF ESTABLISHMENT OF SATELLITE MULTIFUNCTIONAL SYSTEM OF REFERENCE STATIONS IN CENTRAL AND EASTERN EUROPE (PROJECT EUPOS) Janusz SLEDZINSKI		
1400-209	G01/03P/D-050	Poster
ASTRONOMICAL SIGNIFICANCE OF 320°E MERIDIAN POSITIONING IN CARTOGRAPHY OF THE PLANET VENUS: CASES OF THE GLOBAL SEAMLESS AND HEMISPHERE MAPS George A. BURBA		
1400-210	G01/03P/D-051	Poster
MODELLING OF NETWORK DISTORTIONS BY COLLOCATION Moises F. COSTA, Marcelo C. SANTOS, Luiz Danilo D. FERREIRA		
1400-211	G01/03P/D-052	Poster
THE EUREF PERMANENT NETWORK: AN OVERVIEW Carine BRUYNINX, Georges CARPENTIER, Fabian ROOSBEEK, Ambrus KENYERES		
1400-212	G01/03P/D-053	Poster
STATUS OF THE GEOCENTRIC REFERENCE SYSTEM IN VENEZUELA Jose Napoleon HERNÁNDEZ		

G06	Thursday, July 3 PM
INSIGHT INTO EARTH SYSTEM SCIENCE: VARIATIONS IN THE EARTH'S ROTATION AND ITS GRAVITY FIELD. MEETING OF SECTION III + V	
Location: Site C, Room 25	
Conveners: C. Wilson, M. Sideris Presiding Chairs: C. Wilson, M. Sideris	
EARTH ROTATION	
1400	G06/03P/C25-001
SENSITIVITY ANALYSIS OF THE NON-LINEAR LIOUVILLE EQUATION Florian SEITZ, Hansjoerg KUTTERER	
1415	G06/03P/C25-002
OBSERVING EARTH ROTATION WITH HIGH RESOLUTION RING LASERS K.U. SCHREIBER, A. VELIKOSEL'TSEV, T. KLUEGEL, W. SCHLUETER, G.E. STEDMAN, R. HURST	
1430	G06/03P/C25-003
RIGOROUS COMBINATION OF VLBI AND GPS USING THE CONT'02 CAMPAIGN Daniela THALLER, Volker TESMER, Ralf SCHMID, Detlef ANGERMANN, Markus ROTHACHER	
1445	G06/03P/C25-004
ANGULAR MOMENTUM EXCHANGE BETWEEN THE ATMOSPHERE, OCEANS, AND SOLID EARTH DURING THE PAST 50 YEARS Richard S. GROSS, Dimitris MENEMENLIS	
1500	G06/03P/C25-005
OCEANIC EXCITATION OF POLAR MOTION FROM INTRASEASONAL TO DECADAL PERIODS Aleksander BRZEZINSKI, Jolanta NASTULA, Barbara KOLACZEK, Rui M. PONTE	
1515	G06/03P/C25-006
COMPUTATION OF EARTH ORIENTATION PARAMETERS BY USING A HYDROLOGICAL DISCHARGE MODEL Claudia WALTER	
1530	G06/03P/C25-007
EXCITATIONS OF POLAR MOTION FROM AN ENSEMBLE OF GLOBAL ATMOSPHERIC MODELS Jolanta NASTULA, David Andrew SALSTEIN, Barbara KOLACZEK	
1545	G06/03P/C25-008
SECOND-ORDER DYNAMICS IN THE GLOBAL OCEAN AND IMPLICATIONS ON THE EARTH'S ROTATION AND GRAVITY FIELD Maik THOMAS	
1600	BREAK
GRAVITY AND NUTATION	
1615	G06/03P/C25-009
AN OCEAN BOTTOM PRESSURE MEASUREMENT PROJECT AT OFF SANRIKU, HONSHU, JAPAN Tadahiyo SATO, Hiromi FUJIMOTO, Yoshiaki TAMURA, Koji MATSUMOTO, Toshihiro HIGASHI	
1630	G06/03P/C25-010
ONE YEAR OF TIME-VARIABLE CHAMP-ONLY GRAVITY FIELD MODELS USING KINEMATIC ORBITS Nico SNEEUW, Christian GERLACH, Lorant FOELDVAR, Thomas GRUBER, Thomas PETERS, Reiner RUMMEL, Drazen SVEHLA	
1645	G06/03P/C25-011
RESOLVING REGIONAL ICE MASSES DURING LAST GLACIAL MAXIMUM FROM GRACE Ming FANG, Bradford H. HAGER	
1700	G06/03P/C25-012
TIME-VARIABLE GRAVITY FROM SATELLITE-LASER-RANGING: LOW-DEGREE COMPONENTS AND GEOPHYSICAL/CLIMATIC CONNECTIONS Benjamin Fong CHAO, Christopher M. COX, Andrew Y. AU, Jean-Paul BOY	
1715	G06/03P/C25-013
EARTH OBLATENESS VARIATIONS: UNRAVELING GLACIAL MELTING, OCEAN MASS REDISTRIBUTION AND POST-GLACIAL REBOUND EFFECTS Jean O. DICKEY, Steven L. MARCUS, Olivier DE VIRON, Ichiro FUKUMORI	
1730	G06/03P/C25-014
INVERSION FOR LOAD COEFFICIENTS AND GEOCENTER MOTION FROM GPS DATA AND A PRIORI GEOPHYSICAL MODEL Xiaoping WU, Michael B. HEFLIN, Erik R. IVINS, Donald F. ARGUS, Frank H. WEBB	

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1745 G06/03P/C25-015
INFORMATIONS ON THE EARTH SYSTEM FROM NUTATIONS
Veronique M.A. DEHANT, Olivier DE VIRON, Attilio RIVOLDINI, Frederic
RENAUD



GAI.03 Thursday, July 3 PM

ROCK MAGNETISM: THEORY, EXPERIMENTS AND MODELS (IAGA, ICMA)

Location: Site A, Room 14

Presiding Chair: K. Kodama

1400 GAI.03/03P/A14-001
TEMPERATURE DEPENDENCE OF MAGNETIC SUSCEPTIBILITY AND DETERMINATION OF CURIE (NÉEL) TEMPERATURE: ARE WE CORRECT?
Eduard PETROVSKY, Ales KAPICKA

1420 GAI.03/03P/A14-002
REVISITING THE CURIE BALANCE CONCEPT: TOWARD SIMPLE HIGH FIELD MAGNETIC MEASUREMENTS
Pierre ROCHETTE, Fabienne VADEBOIN

1440 GAI.03/03P/A14-003
COMPUTER-ANIMATED VISUALIZATIONS OF ROCK MAGNETIC PHENOMENA FOR HIGH SCHOOL EDUCATION
Tilo VON DOBENECK, Wolfgang ARNOLD

1500 GAI.03/03P/A14-004
PRESENT AND FOSSIL SERPENTINE DIAPYRES AS SOURCES OF GEOPHYSICAL ANOMALIES ALONG FOREARC REGIONS OF IBM AND SOUTHWEST JAPAN
Yukari N. KIDO, Kantaro FUJIOKA, Shiki MACHIDA, Hideo ISHIZUKA, Hidetoshi SHIBUYA, Zhong ZHENG

GAI.03-Posters Thursday, July 3 PM

ROCK MAGNETISM: THEORY, EXPERIMENTS AND MODELS (IAGA, ICMA)

Location: Site D

1400-213 GAI.03/03P/D-001 Poster
ROCKMAGNETIC CHARACTERIZATION OF LOWER TO MIDDLE SIWALIKS TRANSITION IN THE KARNALI RIVER SECTION, NEPAL
Pitambar GAUTAM, Pascale HUYGHE, Jean-Louis MOUGNIER, Fabienne VADEBOIN

1400-214 GAI.03/03P/D-002 Poster
STRESS EFFECT ON THE MEMORY OF INDUCED MAGNETIC ANISOTROPY OF ROCKS WHICH CONTAIN TITANOMAGNETITE
Vladimir Sigismundovich VETCHINSKI, Sergey V. GAGARKIN, Denis S. VELIKANOV

1400-215 GAI.03/03P/D-003 Poster
COHERENT SIGNAL PROCESSING AT THE PARTIAL REFLECTION TECHNIQUE
Vitold V. BELIKOVICH

1400-216 GAI.03/03P/D-004 Poster
EXPERIMENTAL INVESTIGATION OF CRYSTALLIZATION OF FERRIMAGNETICS UNDER PHYSICAL AND CHEMICAL CONDITIONS OF LITHOSPHERE
Vladimir A. TSELMOVITCH, Vladimir A. TSELMOVITCH, Anatoly K. GAPEEV

GAI.02 Thursday, July 3 PM

DYNAMICS, ENERGETICS AND STRUCTURE OF THE MESOSPHERE-THERMOSPHERE-IONOSPHERE REGION

Location: Site A, Room 7

Presiding Chairs: M. Taylor, W. Singer

1400 GAI.02/03P/A07-001 Invited
EQUATORIAL GRAVITY WAVE DYNAMICS OBSERVED BY OPTICAL AIRGLOW IMAGING IN THE SOUTH AMERICAN SECTOR
Amauri Frago MEDEIROS

1420 GAI.02/03P/A07-002 Invited
THE APPLICATION OF THE TOMOGRAPHIC RETRIEVAL TECHNIQUE USED WITH THE ODIN/OSIRIS IMAGER: THE IDENTIFICATION OF HORIZONTAL AND VERTICAL STRUCTURE IN THE MESOSPHERIC AIRGLOW
Edward John LLEWELLYN, Douglas A. DEGENSTEIN, Nicholas D. LLOYD, Adam E. BOURASSA, Nathan S. WIEBE, Richard L. GATTINGER, Ian C. MCDADE

1440 GAI.02/03P/A07-003
INVESTIGATING MESOSPHERIC GRAVITY WAVE MOMENTUM FLUXES OVER THE ROCKY MOUNTAINS.
Michael J. TAYLOR, C.L. OLSEN, Y. ZHAO, W. HOCKING

1455 GAI.02/03P/A07-004 Invited
VERTICALLY PROPAGATING GRAVITY WAVES GENERATED BY TRANSIENT HEAT SOURCES
M. Joan ALEXANDER

1515 GAI.02/03P/A07-005
AN INVESTIGATION OF THE UMLT OZONE BALANCE USING MSX/UVISI OBSERVATIONS
Jeng-Hwa YEE, Ronald J. VERVACK, JR

1530 GAI.02/03P/A07-006
A REVIEW OF PHYSICAL PROCESSES RELEVANT TO POLAR MESOSPHERE SUMMER ECHOES (PMSE)
Franz-Josef LUEBKEN, Markus RAPP

1550 GAI.02/03P/A07-007
POLAR MESOSPHERE SUMMER ECHOES / IONOSPHERIC HEATING EXPERIMENT WITH HIGH TIME RESOLUTION USING THE EISCAT VHF RADAR AND THE HEATING FACILITY
Evgenia BELOVA, Phillip B. CHILSON, Michael T. RIETVELD, Sheila KIRKWOOD

1605 BREAK

1620 GAI.02/03P/A07-008 Invited
VARIABILITY OF THE PLANETARY WAVES AND ATMOSPHERIC TIDES IN THE ARCTIC MESOSPHERE/LOWER THERMOSPHERE
Dora Valtcheva PANCHEVA

1640 GAI.02/03P/A07-009 Invited
SCIENTIFIC RESULTS FROM RECENT ATMOSPHERIC METEOR STUDIES
Wayne Keith HOCKING

1700 GAI.02/03P/A07-010
NSMR SVALVARD METEOR RADAR STUDY ON THE DYNAMICS OF ARCTIC MESOSPHERE AND LOWER THERMOSPHERE AS COMPARED WITH EISCAT AND OTHER RADAR OBSERVATIONS AND MODELS
Takehiko ASO, Chris M. HALL, Masaki TSUTSUMI, Rolando GARCIA

1715 GAI.02/03P/A07-011
METEOR RADAR TEMPERATURES AND WINDS AT MIDDLE AND HIGH LATITUDES
Werner SINGER, J. BREMER, W.K. HOCKING, J. WEISS, M. DONNER, P.J. ESPY, J. HOEFFNER

1730 GAI.02/03P/A07-012
SHORT PERIOD TIDAL OSCILLATIONS IN THE WINTER MESOPAUSE REGION OVER SYOWA (69S, 39E), ANTARCTICA
Masaki TSUTSUMI, Takuya D. KAWAHARA, Takehiko ASO, Tsukasa KITAHARA, Fumitoshi KOBAYASHI, Akio NOMURA

1745 GAI.02/03P/A07-013
SEASONAL DEPENDENCE AND VARIABILITY OF MESOPAUSE REGION DIURNAL AND SEMIDIURNAL THERMAL TIDES BASED ON ONE-YEAR FULL DIURNAL CYCLE LIDAR OBSERVATION OVER FORT COLLINS, CO (42N, 105W)
Tao YUAN, Chiao-Yao SHE, Bifford P. WILLIAMS, David A. KRUEGER, Maura E. HAGAN

GAI.03-Posters Thursday, July 3 PM

HOW, WHEN, WHERE, AND WHY DO MAGNETIC RECONNECTION OCCUR?

Location: Site D

1400-217 GAI.03/03P/D-001 Poster
SIMULATION OF ION DYNAMICS IN A MAGNETIC RECONNECTION
Hironori SHIMAZU, Robert M. WINGLEE

1400-218 GAI.03/03P/D-002 Poster
AN ELECTRON HEATING IN THE DOWNSTREAM REGION OF THE X-TYPE NEUTRAL LINE
Keizo FUJIMOTO, Shinobu MACHIDA

1400-219 GAI.03/03P/D-003 Poster
MAGNETIC RECONNECTION TRIGGERED BY ALFVÉN WAVES
Shinji SAITO, Jun-Ichi SAKAI, Takayuki HARUKI

1400-220 GAI.03/03P/D-004 Poster
NONLINEAR SATURATION OF THE COLLISIONLESS GUIDE FIELD TEARING
Homa KARIMABADI, William DAUGHTON, Kevin QUEST

1400-221 GAI.03/03P/D-005 Poster
SOLAR WIND CONTROL OF SUBSTORM OCCURRENCE FREQUENCY
Virginia SILBERGLEIT, Toshihiko IYEMORI

1400-222 GAIII.03/03P/D-006 Poster
COUNTERSTREAMING ION VELOCITY DISTRIBUTIONS AS INDICATOR OF
MULTIPLE RECONNECTION
Oleg Leonid VAISBERG, Levon A. AVANOV, Valery N. SMIRNOV, Thomas E.
MOORE

GAIII.04 Thursday, July 3 PM
**WHAT ARE THE STRUCTURES AND DYNAMICS OF THE
MAGNETOPAUSE AND ITS BOUNDARY LAYERS?**
Location: Site A, Room 8

Presiding Chairs: J. R. Johnson, K.-H. Glassmeier

1400 GAIII.04/03P/A08-001 Invited
MAGNETOPAUSE STRUCTURE: LOCAL AND GLOBAL KINETIC SIMULATIONS
Homa KARIMABADI, Nick OMIDI

1425 GAIII.04/03P/A08-002 Invited
WHAT CAN A KELVIN-HELMHOLTZ VORTEX DO IN THE MAGNETOTAL
FLANKS?
Masaki FUJIMOTO

1450 GAIII.04/03P/A08-003
COMPARING CLUSTER OBSERVATIONS OF FLANK MAGNETOPAUSE
RECONNECTION WITH MHD SIMULATIONS
Stefan ERIKSSON, Scot ELKINGTON, Tai PHAN, George SISCOE, Tomas
KARLSSON, Robert ERGUN, Henri RÈME, Andre BALOGH, Mats ANDRE

1505 GAIII.04/03P/A08-004
ON SET OF TURBULENCE AT A VELOCITY SHEAR INTERFACE AND ITS FAST
PLASMA MIXING
Yosuke MASTUMOTO, Masahiro HOSHINO

1520 GAIII.04/03P/A08-005
MAGNETIC AND ION KINETIC STRUCTURES OF DAYSIDE RECONNECTION
LAYER
Masao NAKAMURA

1535 GAIII.04/03P/A08-006
DAWN-DUSK SYMMETRY OF MAGNETOPAUSE ISLAND STRUCTURE
Lin-Ni HAU, W.-L. TEH, B.U.O. SONNERUP

1550 BREAK

1605 GAIII.04/03P/A08-007 Invited
OBSERVATIONS AT THE DAYSIDE MAGNETOPAUSE DURING THE FIRST 2
YEARS OF THE CLUSTER MISSION
Christopher J. OWEN, Malcolm W. DUNLOP, Andrew N. FAZAKERLEY, Jean-
Michel BOSQUED, Jason P. DEWHURST, Robert C. FEAR, Andre BALOGH, Henri
REME

1630 GAIII.04/03P/A08-008
GENERATION MECHANISM AND SPACECRAFT SIGNATURESOF FTES FROM
A GLOBAL MODEL
Joachim RAEDER

1645 GAIII.04/03P/A08-009
GLOBAL MODEL STUDY OF THE PDL DEPENDENCE ON SOLAR WIND
CONDITIONS
Y.L. WANG, J. RAEDER, C.T. RUSSELL

1700 GAIII.04/03P/A08-010
CLUSTER MAGNETOPAUSE OBSERVATIONS: MAGNETOSHEATH
TRANSITION, CURRENTS AND DYNAMICS
Malcolm W. DUNLOP, A. FAZAKERLEY, A. BALOGH, M. HAPGOOD, C. OWEN,
C. PERRY, M. GRANDE, J.-M. BOSQUED, I. DANDOURAS, H. REME

1715 GAIII.04/03P/A08-011
WHAT CAN WE KNOW FROM THE RISE TIME OF GEOMAGNETIC SUDDEN
COMMENCEMENTS ?
Tohru ARAKI, Tomohiko TAKEUCHI

1730 GAIII.04/03P/A08-012
MULTI-SATELLITE OBSERVATION OF SOLAR WIND TRIGGERS OF
TRANSIENT EVENTS
Galina I. KOROTOVA, David G. SIBECK, Howard SINGER, Ted ROSENBERG

1745 GAIII.04/03P/A08-013
DYNAMIC RESPONSE OF THE MAGNETOSPHERE TO SUDDEN CHANGES IN
SOLAR WIND DYNAMIC PRESSURE
Renata Y. LUKIANOVA

GAIV.02 Thursday, July 3 PM
COUPLING COMPLEXITY IN THE HELIOSPHERE
Location: Site A, Room 6

Convener: G.P. Zank
Co-Convener: I.H. Cairns
Presiding Chairs: G.P. Zank, K. Munakata

1400 GAIV.02/03P/A06-001
EVOLUTION OF ENERGETIC ELECTRON BEAMS AND PLASMA WAVE
TURBULENCE IN INHOMOGENEOUS SPACE PLASMA
Eduard P. KONTAR

1440 GAIV.02/03P/A06-002
COUPLING OF THE INTERSTELLAR AND INTERPLANETARY MAGNETIC
FIELDSAT THE HELIOSPHERIC INTERFACE
Nikolai V. POGORELOV, Tatsuki OGINO, Gary P. ZANK

1510 GAIV.02/03P/A06-003
NEAR-EARTH TRAJECTORY OF CME DEDUCED FROM COSMIC RAYS
Kazuoki MUNAKATA, Takao KUWABARA, John W. BIEBER, Paul EVENSON,
Roger PYLE, Zenjiro FUJII, Marcus L. DULDIG, Marlos R. SILVA, Nalin B.
TRIVEDI, Walter D. GONZALEZ, Nelson J. SCHUCH

1540 BREAK

1600 GAIV.02/03P/A06-004
PARTICLE TRANSPORT AND RECONNECTION IN THE MAGNETOSPHERE
Joerg BUECHNER

1640 GAIV.02/03P/A06-005
GALACTIC COSMIC-RAY INTERACTIONS IN THE GLOBAL HELIOSPHERE: A
SELF-CONSISTENT APPROACH
Vladimir FLORINSKI, Gary P. ZANK

1710 GAIV.02/03P/A06-006
NUMERICAL MODELING OF SOLAR ACTIVE PHENOMENA: EMERGING FLUX,
RECONNECTION, FLARES AND CMES
Hiroaki ISOBE, Daikou SHIOTA, Syuniti TANUMA, Kazunari SHIBATA

1740 GAIV.02/03P/A06-007
THE RADIAL EVOLUTION OF SOLAR WIND SCALES
John D. RICHARDSON, Chi WANG, Leonard F. BURLAGA

GAV.03 Thursday, July 3 PM
**THE GEOSPACE ENVIRONMENT IN NEAR-REAL TIME:
SCIENCE AND TECHNOLOGY (DIVISION V LEAD, JOINT WITH
DIVISION III, INTERDIVISIONAL WG ON POLAR RESEARCH,
AND CEOS)**
Location: Site A, Room 5

Presiding Chairs: T.G. Onsager, S. Fujita

1400 GAV.03/03P/A05-001
REAL-TIME INVERSION MODELING WITH GEDAS FOR SPACE WEATHER: 1.
OBJECTIVES
Akimasa IEDA, Yohsuke KAMIDE, Yuka KADOWAKI, Satoshi MASUDA, Hiroyuki
SHINAGAWA, Hisato SHIRAI, Eric A. KIHN, Aaron J. RIDLEY, Edward W.
CLIVER

1420 GAV.03/03P/A05-002 Invited
MODELING THE SUN-EARTH CONNECTION
W. Jeffrey HUGHES, The CISM Team

1440 GAV.03/03P/A05-003 Invited
SPACEWEATHER EFFECTS AS INFERRED FROM THE LOW LATITUDE
MAGNETIC RECORDS
Sobhana ALEX, G.S. LAKHINA

1500 GAV.03/03P/A05-004 Invited
CHARACTERISTICS OF GLOBAL GROUND MAGNETIC FIELD
PERTURBATIONS BEHIND GROUND EFFECTS OF SPACE WEATHER DURING
THE APRIL 2000 GEOMAGNETIC STORM
Antti A. PULKKINEN, Dimitris VASSILIADIS, Robert WEIGEL, Ari VILJANEN,
Risto PIRJOLA

1520 GAV.03/03P/A05-005 Invited
USING SPACE PHYSICS INTERACTIVE DATA RESOURCE (SPIDR) FOR NEAR
REAL-TIME DATA ASSIMILATION, MODELING AND FORECAST OF SPACE
WEATHER
Mikhail Nikolaevich ZHIZHIN, Eric KIHN, Evgeny Petrovich KHARIN, Alexei
Alexandrovich BURTSEV

1540 BREAK

1600 GAV.03/03P/A05-006 Invited
SPACE WEATHER - RECENT ADVANCES IN NUMERICAL MODELING AND
DATA AVAILABILITY
Terrance G. ONSAGER

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- 1620 GAV.03/03P/A05-007 Invited**
A NEW TECHNIQUE FOR SHORT-TERM FORECAST OF AURORAL ACTIVITY
Anthony T.Y. LUI, William W. LAI, Kan LIOU, Ching I. MENG
- 1640 GAV.03/03P/A05-008 Invited**
AN OVERVIEW OF SPACE WEATHER RESEARCH IN KOREA
Byung-Ho AHN, K.S. CHO, Y.D. PARK, Y.S. PYO, Y.-I. WON, K.W. MIN
- 1700 GAV.03/03P/A05-009**
NEAR REAL-TIME DATA ACQUISITION OF GEOMAGNETIC OBSERVATION FROM HIGH LATITUDES AND ITS UTILIZATION FOR SPACE WEATHER NOWCASTING AND FORECASTING
Manabu KUNITAKE, Tsutomu NAGATSUMA, Hiromitsu ISHIBASHI, Takashi KIKUCHI, Oleg TROSHICHEV, Julius ZETZER, Ching MENG, Kazue TAKAHASHI, Toyohisa KAMEI, Roger SMITH
- 1715 GAV.03/03P/A05-010**
GLOBAL PARTICLE SIMULATION FOR A SPACE WEATHER MODEL: RECENT DEVELOPMENT WITH VPP5000
Ken-Ichi NIHSIKAWA, Dongsheng CAI, Bertrand LEMBEGE, Yan XIAOYANG
- 1730 GAV.03/03P/A05-011**
MAGNETOSPHERIC RESPONSE TO VARIOUS SOLAR WIND VARIATIONS
Shigeru FUJITA, Takashi TANAKA, Takashi KIKUCHI, Takahiro OBARA, Ryuho KATAOKA, Tetsuo MOTOKA
- 1745 GAV.03/03P/A05-012**
CALCULATION OF IONOSPHERIC ELECTRIC POTENTIALS FOR SUBSTORMS FROM 3D GLOBAL MHD SIMULATION
H. NAKATA, M. SHINOHARA, Y. KAMIDE, T. OGINO



MI01 Thursday, July 3 PM

VARIATION OF THE SOLAR ENERGY OUTPUT AND ITS INFLUENCE ON CLIMATE (IRC, ICCI, ICACGP)

Location: Site C, Room 29

Presiding Chair: J.D. Haigh

- 1400 MI01/03P/C29-001**
SENSITIVITY OF THE GLOBAL OZONE, TEMPERATURE, AND DYNAMICS TO THE SOLAR UV VARIABILITY DURING 28-DAY AND 11-YEAR CYCLES STUDIED WITH A 3-D CLIMATE-CHEMISTRY MODEL
Eugene V. ROZANOV, Tatiana A. EGOROVA, Werner SCHMUTZ, Margit HABERREITER
- 1440 MI01/03P/C29-002 Invited**
PAST AND FUTURE ASTRO-CLIMATIC CYCLES
Andre L. BERGER
- 1520 MI01/03P/C29-003**
SOLAR FORCING OF CLIMATE AND AMPLIFYING MECHANISMS ON CENTENNIAL TO MILLENNIAL TIME SCALES
Gerard C. BOND

1600 BREAK

- 1620 MI01/03P/C29-004 Invited**
GLOBAL TEMPERATURE RESPONSE TO CHANGING SOLAR IRRADIANCE: EXCITING THE QUASI-DECADAL OSCILLATION
Warren Bradley WHITE, Michael D. DETTINGER
- 1700 MI01/03P/C29-005 Invited**
ARE LOW CLOUDS AFFECTED BY SOLAR IRRADIANCE OR COSMIC RAYS?
Jon Egill KRISTJANSSON, Jørn KRISTIANSEN, Eigil KAAS
- 1740 MI01/03P/C29-006**
GLOBAL OZONE AND CLIMATE RESPONSE TO THE INCREASE OF SOLAR UV RADIATION FROM MINIMUM TO MAXIMUM OF THE SOLAR ACTIVITY CYCLE
Eugene V. ROZANOV, Michael E. SCHLESINGER, Tatiana A. EGOROVA, Bin LI, Natalia G. ANDRONOVA, Vladimir A. ZUBOV

MI01-Posters Thursday, July 3 PM

VARIATION OF THE SOLAR ENERGY OUTPUT AND ITS INFLUENCE ON CLIMATE (IRC, ICCI, ICACGP)

Location: Site D

- 1400-223 MI01/03P/D-001 Poster**
RECONSTRUCTION OF THE VARIABILITY OF THE SOLAR UV RADIATION
Margit HABERREITER, Eugene ROZANOV, Werner SCHMUTZ
- 1400-224 MI01/03P/D-002 Poster**
SIGNATURES OF SOLAR ACTIVITY CYCLES IN THE GLOBAL TEMPERATURE
Heikki K.O. NEVANLINNA

MI02 Thursday, July 3 PM

CLOUDS, AEROSOLS, RADIATION AND CLIMATE SYMPOSIUM (ICCP, IRC, ICACGP)

Location: Site B, Room 17

Presiding Chairs: U. Lohman, M. Mikami

- 1400 MI02/03P/B17-001**
SOLAR ACTIVITY, CLOUDS AND CLIMATE. IS THERE A LINK?
Jon Egill KRISTJANSSON, Jørn KRISTIANSEN, Eigil KAAS
- 1430 MI02/03P/B17-002**
FORBIDDEN CLIMATE FORCINGS
Theodore L. ANDERSON, Robert J. CHARLSON, Stephen E. SCHWARTZ, Reto KNUTTI, Olivier BOUCHER, Henning RODHE, Jost HEINTZENBERG
- 1445 MI02/03P/B17-003**
EFFECT OF ABSORBING AEROSOLS ON HYDROLOGY AND CLIMATE
Surabi MENON, James HANSEN, Larissa NAZARENKO
- 1500 MI02/03P/B17-004**
ESTIMATES OF CLIMATE RESPONSE TO DIRECT AND INDIRECT RADIATIVE FORCING OF SULPHATE AND SOOT
Jon Egill KRISTJANSSON, Trond IVERSEN, Alf KIRKEVAG, Oyvind SELAND, Jens DEBERNARD, Lars Petter ROED

MC01 Thursday, July 3 PM

INTER-CONTINENTAL TRANSPORT AND GLOBAL AND REGIONAL IMPACTS OF EMISSIONS OF ATMOSPHERIC TRACE GASES AND AEROSOLS FROM DIFFERENT CONTINENTS (ICACGP)

Location: Site C, Room 26

Presiding Chair: J. Gelle

- 1400 MC01/03P/C26-001**
EFFECTS OF BIOMASS BURNING ON TRACE SPECIES OVER THE WESTERN PACIFIC IN SPRING 2001
Yutaka KONDO, Yu MORINO, Makoto KOIKE, Nobuyuki TAKEGAWA, Kazuyuki KITA, Yuzo MIYAZAKI, Glen W. SACHSE, Frank FLOCKE, Andrew J. WEINHEIMER, Hanwant B. SINGH, Fred L. EISELE
- 1420 MC01/03P/C26-002**
EASTERN ASIAN EMISSIONS OF ANTHROPOGENIC HALOGENATED CARBONS DEDUCED FROM AIRCRAFT CONCENTRATION DATA
Paul I. PALMER, Daniel J. JACOB, Loretta J. MICKLEY, Donald R. BLAKE, Glen W. SACHSE, Henry E. FUELBERG, Christopher M. KILEY
- 1440 MC01/03P/C26-003**
SYNOPTIC-SCALE TRANSPORT OF REACTIVE NITROGEN OVER THE WESTERN PACIFIC IN SPRING
Yuzo MIYAZAKI, Yutaka KONDO, Makoto KOIKE, Kazuyuki KITA, Nobuyuki TAKEGAWA, Henry E. FUELBERG, Glen W. SACHSE, Frank FLOCKE, Hanwant B. SINGH, Mark ZONDLO, Donald R. BLAKE
- 1500 MC01/03P/C26-004**
OZONE AND REACTIVE NITROGEN IN THE AIR MASSES FROM ASIAN CONTINENT DURING TRACE-P AND PEACE
Kazuyuki KITA, Yutaka KONDO, Makoto KOIKE, Nobuyuki TAKEGAWA, Yuzo MIYAZAKI, Shuji KAWAKAMI, Donald R. BLAKE, Tomoko SHIRAI
- 1520 MC01/03P/C26-005**
TROPOSPHERIC OZONE OVER KARACHI, PAKISTAN
Haruo TSURUTA, Rizla ZAREEN, Badar GHOURI, Seiichiro YONEMURA, Shigeto SUDO

MC01-Posters Thursday, July 3 PM

INTER-CONTINENTAL TRANSPORT AND GLOBAL AND REGIONAL IMPACTS OF EMISSIONS OF ATMOSPHERIC TRACE GASES AND AEROSOLS FROM DIFFERENT CONTINENTS (ICACGP)

Location: Site D

- 1600-225 MC01/03P/D-001 Poster**
INTERCONTINENTAL TRANSPORT OF ANTHROPOGENIC POLLUTANTS FROM EAST ASIA TO NORTH PACIFIC: RELATIONSHIP BETWEEN LARGE-SCALE CIRCULATION AND TRANSPORT PATTERN
Jiyoung KIM, Sung-Nam OH, Byoung-Cheol CHOI, Hyo-Sang CHUNG
- 1600-226 MC01/03P/D-002 Poster**
EPISODIC EVENTS OF AIR POLLUTION TRANSPORT FROM EUROPE TO EAST SIBERIA
Pakpong POCHANART, Hajime AKIMOTO, Vladimir M. POTEMKIN, Tamara V. KHODZHER

1600-227MC01/03P/D-003Poster

A TRAJECTORY ANALYSIS OF CO TOTAL COLUMN MEASUREMENTS IN RUSSIA AND NORTHERN JAPAN BETWEEN 1995 AND 2001
Leonid YURGANOV, Hajime AKIMOTO, Evgeny GRECHKO, Shamil MAKSYUTOV, Yutaka KONDO

1600-228MC01/03P/D-004Poster

SPECTROSCOPIC STUDY OF SEASONAL VARIATION OF CARBON MONOXIDE AND OZONE ABOVE POKER FLAT, ALASKA
Yasuko KASAI, Maki ENDO, Kouji SEKI, Yasuhiro MURAYAMA, Frank MURCRAY, Koukei MIZUTANI

1600-229MC01/03P/D-005Poster

ESTIMATION OF THE CONTRIBUTION OF INTER-CONTINENTAL TRANSPORT BY USING A GLOBAL CHEMICAL MODEL
Masayuki TAKIGAWA, Hajime AKIMOTO, Kengo SUDO, Masaaki TAKAHASHI, Nobuyuki TAKEGAWA, Yutaka KONDO

1600-230MC01/03P/D-006Poster

INVERSE MODELING OF EMISSIONS OF OZONE PRECURSORS USING THE ADJOINT MODEL METHOD
Jean-Francois J. MULLER, Trissevgeni STAVRAKOU

1600-231MC01/03P/D-007Poster

ASIAN OUTFLOW TO THE PACIFIC OBSERVED DURING PEACE AIRCRAFT CAMPAIGN IN 2002
Makoto KOIKE, N. OSHIMA, H. NAKAMURA, Y. KONDO, N. TAKEGAWA, Y. MIYAZAKI, K. KITA, D.R. BLAKE, T. WATAI, S. KAWAKAMI, T. SHIRAI

1600-232MC01/03P/D-008Poster

CHARACTERISTIC OF ATMOSPHERIC FINE STRUCTURE OF OZONE, CARBON MONOXIDE, AND HUMIDITY DURING PEACE IN WINTER AND SPRING 2002
Shuji KAWAKAMI, Yutaka KONDO, Nobuyuki TAKEGAWA, Kazuyuki KITA, Makoto KOIKE, Toshinobu MACHIDA, Tomonori WATAI, Donald R. BLAKE, Tomoko SHIRAI, Toshihiro OGAWA

1600-233MC01/03P/D-009Poster

CORRELATIONS OF CO, CO2, AND NOY IN ASIAN OUTFLOW PLUMES OBSERVED OVER JAPAN IN JANUARY 2002
Nobuyuki TAKEGAWA, Yutaka KONDO, Makoto KOIKE, Kazuyuki KITA, Donald R. BLAKE, Tomonori WATAI, Shuji KAWAKAMI, Tomoko SHIRAI, Toshihiro OGAWA

1600-234MC01/03P/D-010Poster

VARIABILITY IN OZONE AND ITS PRECURSORS OVER THE ARABIAN SEA AND BAY OF BENGAL
Lokesh Kumar SAHU, Duli Chand, S.V. VENKATARAMANI, Shyam Lal

1600-235MC01/03P/D-011Poster

COMPOSITION OF MOLECULAR ORGANIC TRACERS IN SMOKE AEROSOL FROM BIOMASS COMBUSTION IN RONDONIA, BRAZIL
Celeste Y. SANTOS, Paulo ARTAXO, Meinrat O. ANDREAE, Débora A. AZEVEDO, Francisco Radler AQUINO NETO

1600-236MC01/03P/D-012Poster

IMPACT OF ALPHA-PINENE ON THE PRODUCTION OF ACETONE AND SEMI-VOLATILE COMPOUNDS
Manuel CAPOUET, Jean-Francois MULLER

1600-237MC01/03P/D-013Poster

SIMULATION OF RN-222 AND PB-210 IN THE CANADIAN MIDDLE ATMOSPHERE MODEL
David A. PLUMMER, Jack MCCONNELL, Stephen R. BEAGLEY, Jean DEGRANDPRE

1600-238MC01/03P/D-014Poster

CUMULATIVE EFFECT OF THE RADIOACTIVE CONTAMINATION OF THE JAPANESE SEA STIPULATED BY PERENNIAL OPERATION REGIONAL NPP
Kirill A. BOYARCHUK, V.V. HEGAY, V.P. KIM

1600-239MC01/03P/D-015Poster

NEW APPROACHES FOR DEVELOPMENT OF EMISSION INVENTORIES OF SOIL DUST FOR TRANSPORT MODELS
Kouhei YAMAMOTO, Mikio KASAHARA, Toshihiro KITADA, Gakuji KURATA

1600-240MC01/03P/D-016Poster

CIRCULATION DYNAMICAL STRUCTURE IN COURSE OF DUST STORM OCCURRENCE IN NORTH CHINA IN SPRING OF 2001
keli WANG, hao JIANG, hong WU

1400MC16/03P/C27-001

SEASONAL EVOLUTION OF REGIME SHIFT IN GLOBAL SSTs
Sayaka YASUNAKA, Kinio HANAWA

1415MC16/03P/C27-002

CLIMATE CHANGE RELATED METEOROLOGICAL OBSERVATIONS ON MULTIDECADAL AND DECADEAL SCALE OVER INDIA
Hari Narain SRIVASTAVA

1430MC16/03P/C27-003

THE INTERDECADEAL VARIABILITY OF SST IN THE TROPICAL PACIFIC AND IMPACT ON CLIMATE IN EAST ASIA
Liantong ZHOU, Ronghui HUANG

1445MC16/03P/C27-004

RECENT DECADEAL WEAKENING OF THE EAST ASIAN WINTER MONSOON AND ITS IMPACT ON THE NORTH PACIFIC STORM ACTIVITY
Hisashi NAKAMURA, Takeaki SAMPE

1500MC16/03P/C27-005

INTERDECADEAL VARIABILITY OF THAILAND SUMMER MONSOON
Nkrintra SINGHRATTNA, Balaji RAJAGOPALAN

1515BREAK

1530MC16/03P/C27-006

EL NINO IMPACT AND RECENT INCREASE IN THE WAVE HEIGHTS OFF HIRATSUKA, JAPAN
Wataru SASAKI, Sin-Iti IWASAKI, Tomonori MATSUURA, Satoshi IIZUKA, Isao WATABE

1545MC16/03P/C27-007

THE IMPACT OF DECADEAL-SCALE INDIAN OCEAN SSTA ON TROPICAL AND EXTRA-TROPICAL CLIMATE
Juergen BADER, Mojiib LATIF

1615MC16/03P/C27-008

INTERANNUAL RELATIONSHIP BETWEEN THE NDVI AND THE ACTUAL EVAPOTRANSPIRATION OVER ASIA
Rikie SUZUKI, Koiti MASUDA

1630MC16/03P/C27-009

DECADEAL AND MULTIDECADAL PRECIPITATION VARIATIONS IN BULGARIA
Vesselin A. ALEXANDROV

1645MC16/03P/C27-010

ENSO - LIKE DECADEAL - SCALE VARIABILITY OF UPPER OCEAN HEAT CONTENT IN THE TROPICAL PACIFIC
Takuya HASEGAWA, Kimio HANAWA

1700MC16/03P/C27-011

STRONG ENSO VARIABILITY IN THE DRAKE PASSAGE IN THE 1990S
David H. BROMWICH, Ryan L. FOGT, Keith M. HINES, Zhichang GUO, Jorge F.CARRASCO



P01

Thursday, July 3 PM

WESTERN BOUNDARY CURRENTS

Location: Site B, Room 18

Presiding Chairs: J.R.E. Lutjeharms, N. Bindoff

1400P01/03P/B18-001Invited

NEW CONCEPTS ON THE AGULHAS SYSTEM
Johann R. E. LUTJEHARMS, Wilhelmus P. M. DE RUIJTER, Olaf BOEBEL, Herman RIDDERINKHOF

1430P01/03P/B18-002Invited

THE AGULHAS UNDERCURRENT EXPERIMENT
Lisa M. BEAL, Teresa K. CHERESKIN, Harry L. BRYDEN

1500P01/03P/B18-003Invited

THE SOMALI CURRENT
Fritz SCHOTT

1530BREAK

1550P01/03P/B18-004Invited

THE EAST AUSTRALIAN CURRENT
Ken R. RIDGWAY

1620P01/03P/B18-005

NORTHWARD INTRUSION OF ANTARCTIC INTERMEDIATE WATER IN THE WESTERN PACIFIC
Tangdong QU, Eric J. LINDSTROM

1640P01/03P/B18-006

OBSERVATIONS OF THE NEW GUINEA COASTAL CURRENT AND UNDERCURRENT
Yuji KASHINO, Iwao UEKI, Yoshifumi KURODA, Andri PURWANDANI

MC16

Thursday, July 3 PM

UNDERSTANDING AND PREDICTING DECADEAL-MULTIDECADAL VARIATIONS (ICCI)

Location: Site C, Room 27

Presiding Chair: K. Hanawa

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- 1700 P01/03P/B18-007**
WHAT CONTROLS THE SEASONAL VARIATION OF THE PACIFIC NORTH EQUATORIAL CURRENT BIFURCATION LATITUDE?
Toru MIYAMA, J.P. MCCREARY JR., Y.Y. KIM, T. JENSEN, H. KANG, T. QU, A. ISHIDA
- 1720 P01/03P/B18-008**
REVISIT TO THE CIRCULATION IN THE WESTERN PACIFIC OCEAN
Dunxin HU, Xuezhi BAI
- 1740 P01/03P/B18-009**
TRANSPORT OF NORTH PACIFIC INTERMEDIATE WATER ACROSS JAPANESE WOCE SECTIONS
Yuzhu YOU, Nobuo SUGINOHARA, Masao FUKASAWA, Hiroyuki YORITAKA, Keisuke MIZUNO, Yuji KASHINO, Djoko HARTOYO

P06-Posters Thursday, July 3 PM

THE SOUTHERN OCEAN (SCOR, SCAR)

Location: Site D

- 1400-255 P06/03P/D-001 Poster**
TOWARDS MONITORING THE FLOW THROUGH DRAKE PASSAGE WITH JASON
Christine PROVOST
- 1400-256 P06/03P/D-002 Poster**
THE SCOTIA SEA CAULDRON: THE ANTARCTIC CIRCUMPOLAR CURRENT IN A HIGH MIXING ENVIRONMENT
Alberto C. NAVEIRA GARABATO, David P. STEVENS, Karen J. HEYWOOD
- 1400-257 P06/03P/D-003 Poster**
SOURCE OF MESOSCALE TURBULENCE FOR THE ANTARCTIC CIRCUMPOLAR CURRENT AT THE SOUTH-WEST INDIAN RIDGE
Isabelle Jane ANSORGE, Kenneth GULEKANA, William FRONEMAN, Johann LUTJEHARMS, Christopher MCQUAID
- 1400-258 P06/03P/D-004 Poster**
THE ITALIAN CONTRIBUTION TO THE OCEANOGRAPHY OF THE ROSS SEA
Giancarlo SPEZIE
- 1400-259 P06/03P/D-005 Poster**
EVIDENCE OF THE ANTARCTIC BOTTOM WATER SOURCE IN THE PRYDZ BAY REGION
Takashi YABUKI, Toshio SUGA, Kimio HANAWA, Koji MATSUOKA, Hiroshi KIWADA, Tomowo WATANABE
- 1400-260 P06/03P/D-006 Poster**
ANOMALOUS UPPER-OCEAN CHARACTERISTICS IN MARGUERITE BAY, WESTERN ANTARCTIC PENINSULA, IN RESPONSE TO THE 1997/98 ENSO
Michael Paul MEREDITH, Andrew CLARKE, Ian A. RENFREW, John C. KING, Mark A. BRANDON
- 1400-261 P06/03P/D-007 Poster**
THE SOUTHERN OCEAN GLOBAL OCEAN ECOSYSTEM DYNAMICS PROGRAM
Eileen E. HOFMANN
- 1400-262 P06/03P/D-008 Poster**
ICCED: INTEGRATED ANALYSIS OF CIRCUMPOLAR CLIMATE INTERACTIONS AND ECOSYSTEM DYNAMICS IN THE SOUTHERN OCEAN - A SOUTHERN OCEAN INITIATIVE FOR THE OCEANS PROGRAMME
Eileen E. HOFMANN, Eugene J. MURPHY, Ulrich BATHMANN, Steve NICOL, Deborah THIELE, Evgeny A. PAKHOMOV
- 1400-263 P06/03P/D-009 Poster**
THE CLIVAR (CLIMATE VARIABILITY AND PREDICTABILITY)/CLIC (CLIMATE AND CRYOSPHERE) SOUTHERN OCEAN PANEL
Michael SPARROW, Steve RINTOUL, Eberhard FAHRBACH, Howard CATTLE



SS02 Thursday, July 3 PM

SEISMIC SOURCES: MODELING AND PREDICTION

Location: Site A, Room 3

Presiding Chairs: X.-C. Yin, F.T. Freund

- 1400 SS02/03P/A03-001**
NON-PLANAR FAULT GEOMETRY AND STRESS FIELD AROUND THE FAULT
Eiichi FUKUYAMA
- 1415 SS02/03P/A03-002**
THREE DIMENSIONAL SIMULATION OF SOURCE PROCESS AND GROUND MOTIONS OF THE 1999 CHI-CHI, TAIWAN, EARTHQUAKE
Shiann-Jong LEE, Kuo-Fong MA, How-Wei CHEN

- 1430 SS02/03P/A03-003**
DYNAMIC RUPTURE SIMULATION ON A PLANAR FAULT EMBEDDED IN A HALF-SPACE
Haiming ZHANG, Xiaofei CHEN
- 1445 SS02/03P/A03-004**
VISCOELASTIC DEFORMATION COUPLED WITH PORE-FLUID FLOW
S. Jason ZHAO, Y. KANEDA
- 1500 SS02/03P/A03-005**
INTERACTION OF SLIP ON ASPERITIES: NUMERICAL SIMULATION OF SEISMIC CYCLES ON A 2D PLANAR FAULT WITH NONUNIFORM FRICTIONAL PROPERTY
Naoyuki KATO
- 1515 SS02/03P/A03-006**
PARTICLE BASED MODELING OF THE FAULT ZONE CONSIDERING THE TIME-DEPENDENT INCREASE OF THE CONTACT AREA BETWEEN PARTICLES
Bunichiro SHIBAZAKI, Yutaka NAKAMA
- 1530 SS02/03P/A03-007**
FRICTIONAL HEALING OF QUARTZ GOUGE @200°C DUE TO SOLUTION-TRANSFER THROUGH LIQUID-PHASE WATER
Masao NAKATANI, Chris H. SCHOLZ

1545 BREAK

- 1600 SS02/03P/A03-008**
POSITIVE HOLE CHARGE CARRIERS: HARBINGER OF HIGH LEVELS OF STRESS IN THE EARTH'S CRUST
Friedemann T. FREUND
- 1615 SS02/03P/A03-009**
SUCCESSFUL TEST OF THE EEPAS FORECASTING MODEL ON EARTHQUAKES IN JAPAN
David A. RHOADES, Frank F. EVISON
- 1630 SS02/03P/A03-010**
SEISMOGENESIS OF INDIVIDUAL MAJOR EARTHQUAKES IN JAPAN
Frank F. EVISON, David A. RHOADES
- 1645 SS02/03P/A03-011**
LURR (LOAD-UNLOAD RESPONSE RATIO) AND ITS DAMAGE RHEOLOGY MODEL
Xiang-chu YIN, Huai-zhong YU, Hui-Hui ZHANG, Ke-yin PENG, Yong-xian ZHANG
- 1700 SS02/03P/A03-012**
THE SEISMIC FEATURES OF THE INNER AND OUTER ZONES OF THE EARTHQUAKE SOURCE
Gennady A. SOBOLEV
- 1715 SS02/03P/A03-013**
EARTHQUAKE PREDICTABILITY USING CHAOTIC DYNAMICS AND PRINCIPAL COMPONENT ANALYSIS OVER INDIA
Hari Narain SRIVASTAVA
- 1730 SS02/03P/A03-014**
STUDY ON THE SATELLITE INFRARED ANOMALY BEFORE EARTHQUAKE
Zhi-hui DENG, Zu-ji QIANG, Mei-hua CHENG
- 1745 SS02/03P/A03-015**
SEISMIC QUIESCENCE BEFORE THE STRONG EARTHQUAKES OF JAPAN
Ivan N. TIKHONOV



V05a-Posters Thursday, July 3 PM

VOLCANIC FLOWS: OBSERVATION, EXPERIMENT, AND THEORY

Location: Site D

Presiding Chair: A. Neri

- 1400-264 V05a/03P/D-001 Poster**
A COMPARISON OF LONG LAVA FLOW CHARACTERISTICS ON FIVE PLANETARY SURFACES
James R. ZIMBELMAN, Mathew N. PEITERSEN
- 1400-265 V05a/03P/D-002 Poster**
IS TAKAYUBARU ANDESITE LAVA, ONE OF THE LARGEST QUATERNARY LAVA FLOWS IN JAPAN, CLASTOGENIC?
Maya YASUI, Masaki TAKAHASHI
- 1400-266 V05a/03P/D-003 Poster**
A MODEL FOR THE SHAPE OF ADVANCING LAVA FLOW FRONTS
Michele DRAGONI, Ida BORSARI, Andrea TALLARICO

1400-267 V05a/03P/D-004 Poster
TEMPERATURE FIELD IN LAVA FLOW LEVEES
Francesca QUARENI, Andrea TALLARICO, Michele DRAGONI

1400-268 V05a/03P/D-005 Poster
TRANSITION FROM SHALLOW SILL TO FLOW: CHANGES IN MORPHOLOGY
Nancy Anne VAN WAGONER, Kelsie DADD

1400-269 V05a/03P/D-006 Poster
VESICULATION AND DEGASSING PROCESS OF THE 1983 ERUPTION AT MIYAKEJIMA VOLCANO
Taketo SHIMANO, Setsuya NAKADA

1400-270 V05a/03P/D-007 Poster
SIMULATIONS FOR VOLCANIC THERMAL FLUID DYNAMICS AND ITS APPLICATION TO THE EVALUATION AND PREDICTION OF THE EFFECTS ON ENVIRONMENTS: VTFS-PROJECT
Eisuke FUJITA, Masataka HIDAKA, Akihiko MINATO, Susumu UMINO, Miyuki NONAKA, Atsushi TORAMARU, Akio GOTO, Mie ICHIHARA, Takeshi NISHIMURA, Kazuo SATO, Motoo UKAWA

1400-271 V05a/03P/D-008 Poster
SIZE DISTRIBUTION OF FRAGMENTED MELT PARTICLES BY RAPID GAS FLOW
Munetoshi SAKAI, Takumi KATO, Kozo KOBAYASHI, Takuma HAYAKAWA

1400-272 V05a/03P/D-009 Poster
CRYSTALLINITIES OF 1997 MONTSERRAT PUMICE AND IMPLICATIONS FOR ERUPTION DYNAMICS
Rachel TEASDALE, A.B. CLARKE, Sally STEPHENS, Steve SPARKS

1400-273 V05a/03P/D-010 Poster
SOME PROBLEMS IN WAVEFORM ANALYSES OF VLP SIGNALS IN ACTIVE VOLCANOES
Takao OHMINATO, Tomokazu KOBAYASHI

1400-274 V05a/03P/D-011 Poster
NUMERICAL SIMULATION OF HORIZONTALLY SPREADING UMBRELLA CLOUDS
Kiyokatsu OCHIAI, Takehiro KOYAGUCHI

1400-275 V05a/03P/D-012 Poster
THE DECOMPRESSION OF VOLATILE-POOR BASALTIC MAGMA FROM A DIKE INTO A HORIZONTAL SUBSURFACE TUNNEL
Anne-Marie LEJEUNE, Andrew WOODS, Stephen SPARKS, Brittain HILL, Charles CONNOR

1400-276 V05a/03P/D-013 Poster
MUD FLOW OF PAPANDAYAN ERUPTION IN NOVEMBER 2002, GARUT, WEST JAVA, INDONESIA
Rudy Dalimin HADISANTONO, Enar Kusdinar ABDURACHMAN, Asep Djadja SUMPENA

V07

Thursday, July 3 PM

SUBAQUEOUS VOLCANISM, VOLCANOGENIC SEDIMENTATION AND HYDROTHERMAL SYSTEMS
Location: Site A, Room 1

Presiding Chairs: J. Varekamp, W. Mueller

1400 V07/03P/A01-001
SUBGLACIAL ERUPTIONS AS INDICATOR OF HEAT TRANSFER AND GEOTHERMAL ACTIVITY IN SUBAQUEOUS ERUPTIONS
Magnus T. GUDMUNDSSON

1415 V07/03P/A01-002
DEEP-SEA ASH LAYERS IN THE SOUTH CHINA SEA: EVIDENCE FOR RECENT EXPLOSIVE VOLCANIC EVENTS IN PHILIPPINE VOLCANOES
Sandra G. CATANE, Neil H. MACALALAD, Martin G. WIESNER

1430 V07/03P/A01-003
AN ARCHAEOAN SUBMARINE VOLCANIC DEBRIS AVALANCHE DEPOSIT, YILGARN CRATON, WESTERN AUSTRALIA, WITH KOMATIITE, PILLOW BASALT AND FLOW BANDED DACITE MEGABLOCKS: THE PRODUCT OF DOME COLLAPSE
Jessica TROFIMOV, Ray A.F. CAS, Brett K. DAVIS

1445 V07/03P/A01-004
THE ORIGINS OF SECONDARY BRECCIA TEXTURES IN ARCHEAN DACITES INTERCALATED WITH KOMATIITES, AND IMPLICATIONS FOR EMPLACEMENT ORIGINS: BLACK SWAN MINE, YILGARN CRATON, WESTERN AUSTRALIA
Ray A.F. CAS, Steve BERESFORD, Jessica TROFIMOV, Nic ROSENGREN

1500 V07/03P/A01-005
SUBMARINE SILICIC LAVA-SILL COMPLEX IN THE URAL VOCANICS, NSW, AUSTRALIA
Katharine F. BULL, Jocelyn MCPHIE

1515 V07/03P/A01-006
RECAPITULATED CLASTS: PRODUCTS OF INHOMOGENEOUS ERUPTIONS IN SUBAQUEOUS AND SUBAERIAL SETTINGS
James D. L. WHITE

1600 V07/03P/A01-007
A MIOCENE SUBMARINE VOLCANIC FACIES ALONG THE KAKUDA, MAZE AND YAHIKO BEACH, NIIGATA, JAPAN
Hiromitsu YAMAGISHI, Norie FUJIBAYASHI, Kouichi TERASAKI

1615 V07/03P/A01-008
ERUPTION-FED AND SYN-ERUPTIVE VOLCANICLASTIC MASS-FLOWS IN THE EARLY TO MIDDLE MIOCENE MARINE RHYOLITIC SCUCESSION, YUNOTSU DISTRICT, SW JAPAN
Kazuhiko KANO

1630 V07/03P/A01-009
ORIGIN OF THE BANDED STRUCTURE OF MIOCENE SUBAQUEOUS LAVA DOMES IN SHIMANE PENINSULA, SW JAPAN
Yasuyuki MIYAKE, John Victor SMITH

1645 V07/03P/A01-010
EVIDENCE FOR THE LATE QUATERNARY VOLCANIC ERUPTIONS OF THE SKP SUBMARINE VOLCANO IN THE KOREA PLATEAU, EAST SEA/JAPAN SEA
JongHwa CHUN

1700 V07/03P/A01-011
SANTORINI-CHRISTIANA AND COLUMBO VOLCANOES-NEW INSIGHTS BASED ON SWATH BATHYMETRY
Matina G. ALEXANDRI

1715 V07/03P/A01-012
FACIES ASSOCIATION OF SUBMARINE DOME COMPLEXES: EXEMPLES FROM ITALY
Donatella DE RITA, Corrado CIMARELLI, Marina FABBRI

1730 V07/03P/A01-013
THE ROLE OF QUENCHED BASALT FRAGMENTS ON FLANK INSTABILITY OF HAWAIIAN VOLCANOES
Barry W. EAKINS, Joel E. ROBINSON, Peter W. LIPMAN

1745 V07/03P/A01-014
TOPOGRAPHIC OBSERVATION OF TEISHI KNOLL BY AN AUTONOMOUS UNDERWATER VEHICLE AND ITS CONTRIBUTION TO VOLCANOLOGY
Osamu OSHIMA, Tamaki URA

V08

Thursday, July 3 PM

CALDERA FORMATION AND UNREST
Location: Site A, Room 2

Presiding Chairs: T.H. Druitt, T. Ui

1400 V08/03P/A02-001
TEMPORALLY- AND TECTONICALLY-LINKED ERUPTION AND CALDERA-COLLAPSE EVENTS IN THE CENTRAL TAUPU VOLCANIC ZONE, NEW ZEALAND
Darren McClurg GRAVLEY, Colin J. N. WILSON, James W. COLE, Graham S. LEONARD

1420 V08/03P/A02-002
GEOMETRICALLY COMPLEX CALDERAS AND UNDERLYING MAGMA CHAMBERS IN THE WESTERN USA
Peter W. LIPMAN

1440 V08/03P/A02-003
MIOCENE MULTIPLE RESURGENT CALDERA SYSTEM IN THE TOKAJ MTS., CARPATHIAN VOLCANIC CHAIN, HUNGARY
Ulrike MARTIN, Ferenc MOLNAR, Karoly NEMETH, Zoltan PECSKAY

1500 V08/03P/A02-004
CONTRASTED ERUPTIVE DYNAMICS OF TWO SUCCESSIVE CALDERA-FORMING ERUPTIONS AT BATUR VOLCANIC FIELD, BALI, INDONESIA
Olivier REUBI, Ian NICHOLLS

1520 BREAK

1540 V08/03P/A02-005
TUFF BRECCIA BENEATH CENTRAL CONES OF HAKONE VOLCANO, JAPAN - AN IMPLICATION FOR THE CALDERA FORMATION PROCESS
Kazutaka MANNEN

1600 V08/03P/A02-006
COOLING OF MAGMA BY CALDERA COLLAPSE: A DRIVING MECHANISM OF LARGE-SCALE EMISSION OF VOLCANIC GASSES OF MIYAKEJIMA JAPAN
Makoto MURAKAMI

1620 V08/03P/A02-007
GENERATION OF CALDERAS IN A RIFT SYSTEM: THE GEDEMSA CALDERA (MAIN ETHIOPIAN RIFT)
D. AYALEW, M.A. DI VITO, R. ISAIA, G. ORSI, G. YIRGU

WEEK
A
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PM

1640 V08/03P/A02-008
 14C WIGGLE-MATCHING DATING OF A WOOD TRUNK CHARRED BY THE RECENT MAJOR ERUPTION OF CHANGBAI
 Toshio NAKAMURA, Yukio ISHIZUKA, Mitsuru OKUNO, Hiroshi MORIWAKI, Kyuhan KIM, B.L. JIN, Katsuhiko KIMURA, Hirotaoka ODA

1700 V08/03P/A02-009
 INTERACTION OF RHYOLITE MAGMAS AT DEPTH: AN EXAMPLE FROM OKATAINA VOLCANIC CENTRE, NEW ZEALAND
 Victoria C. SMITH, Phil A. SHANE, Ian A. NAIRN

V11-Posters Thursday, July 3 PM

INTEGRATED MONITORING OF ACTIVE VOLCANOES

Location: Site D

1400-277 V11/03P/D-001 Poster
 DEGASSING ACTIVITY OF MIYAKEJIMA VOLCANO: 2. H₂O EMISSION RATE
 Nobuo MATSUSHIMA

1400-278 V11/03P/D-002 Poster
 DEGASSING ACTIVITY OF MIYAKEJIMA VOLCANO: 3. VARIATION OF CO₂/SO₂ IN THE PLUME
 Hiroshi SHINOHARA, Keiichi FUKUI, Masanobu ODAI, Kohei KAZAHAYA, Genji SAITO

1400-279 V11/03P/D-003 Poster
 DEGASSING ACTIVITY OF MIYAKEJIMA VOLCANO: 4. VOLATILE CONTENT OF MELT INCLUSIONS IN EJECTA OF AUGUST 18, 2000 ERUPTION
 Genji SAITO, Kozo UTO, Kohei KAZAHAYA, Hiroshi SHINOHARA

1400-280 V11/03P/D-004 Poster
 A SOURCE MIGRATION OF LONG PERIOD EARTHQUAKES DURING THE 2000 ACTIVITY OF MIYAKE-JIMA VOLCANO, JAPAN
 Tomokazu KOBAYASHI, Takao OHMINATO, Eisuke FUJITA, Yoshiaki IDA

1400-281 V11/03P/D-005 Poster
 EARTHQUAKES SERIES PRECEDING VERY LONG PERIOD SEISMIC SIGNALS, OBSERVED DURING THE 2000 MIYAKEJIMA VOLCANIC ACTIVITY
 Tomokazu KOBAYASHI, Takao OHMINATO, Yoshiaki IDA

1400-282 V11/03P/D-006 Poster
 MONITORING OF THE 2000 MIYAKEJIMA ERUPTION BY THE NIED OBSERVATION NETWORK FOR SEISMICITY AND CRUSTAL DEFORMATION
 Motoo UKAWA, Eisuke FUJITA, Eiji YAMAMOTO, Hideki UEDA

1400-283 V11/03P/D-007 Poster
 DEVELOPMENT OF AN AIRBORNE THERMAL INFRARED DETECTOR FOR STUDYING THERMAL INFRARED MAPPING OF THE SULFUR DIOXIDE PLUMES FROM MIYAKEJIMA VOLCANO
 Tetsuya JITSUFUCHI, Motoo UKAWA

1400-284 V11/03P/D-008 Poster
 DINSAR ANALYSIS OF THE VOLCANIC CRUSTAL DEFORMATION OF MIYAKE-JIMA USING RADARSAT IMAGES
 Hiroshi OHKURA, Yutaka WADA, Motoo UKAWA

1400-285 V11/03P/D-009 Poster
 AIR-BORNE LIDAR SURVEY OF ACTIVE VOLCANOES
 Junichi TAKANUKI, Yukihide AKIYAMA, Bandula Senakasiri MAHAGEDARA, Kazunori TAKADA

1400-286 V11/03P/D-010 Poster
 MONITORING OF ACTIVE VOLCANOES BY SAPPORO VOLCANO OBSERVATION AND INFORMATION CENTER, JMA AND ACTIVITY OF VOLCANOES IN HOKKAIDO, JAPAN
 Koji KATO, Takayasu TANIGUCHI, Jun'ichi MIYAMURA, Isao MATSUSHIMA, Juuichi SATO

1400-287 V11/03P/D-011 Poster
 DATABASE OF VOLCANIC EARTHQUAKES AND TREMOR OBSERVED IN JAPAN (2) –AN EXAMPLE OF UTILIZATION FOR VULCANIAN TYPE ERUPTION–
 Masato IGUCHI, Takeshi NISHIMURA, JVSD Group

1400-288 V11/03P/D-012 Poster
 VOLCANO MONITORING AND INFORMATION OF JAPAN METEOROLOGICAL AGENCY
 Hitoshi YAMASATO

1400-289 V11/03P/D-013 Poster
 MONITORING ACTIVE VOLCANO WITH ASTER
 Minoru URAI

1400-290 V11/03P/D-014 Poster
 DEVELOPMENT OF A CALIBRATION SYSTEM FOR FASA PROJECT
 Stefania AMICI, Giuseppe DISTEFANO, Maria Fabrizia BUONGIORNO, Stefania AMICI, Erwin LINDERMEIER, Ivan PIPPI

1400-291 V11/03P/D-015 Poster
 SATELLITE HOT SPOT MONITORING OF JAPANESE VOLCANOES USING AVHRR-BASED SYSTEM
 Takayuki KANEKO, Atsushi YASUDA, Martin John WOOSTER, Tatsuro ISHIMARU, Toshiki ONO, Masaki YASUKAWA, Mikio TAKAGI

1400-292 V11/03P/D-016 Poster
 GEOPHYSICAL SIGNIFICANCE OF THE 2000 ERUPTION OF MT. USU
 Hiromitsu OSHIMA, Shinya ONIZAWA, Hiroshi AOYAMA

1400-293 V11/03P/D-017 Poster
 DEFORMATION MONITORING BY EDM AND THEODOLITE SURVEYS AT THE WESTERN PART OF USU VOLCANO, HOKKAIDO, NORTHERN JAPAN
 Yuichi NISHIMURA, Takeshi MATSUSHIMA, Eiji SAITO, Shinji TAKARADA, Toshikazu HASAKA, Akimichi TAKAGI

1400-294 V11/03P/D-018 Poster
 PRECURSORY EARTHQUAKE HYPOCENTERS OF THE 2000 ERUPTION OF USU VOLCANO, JAPAN, DETERMINED FOR THE THREE-DIMENSIONAL VELOCITY STRUCTURE
 Shin'ya ONIZAWA, Hiromitsu OSHIMA, Hiroshi AOYAMA

1400-295 V11/03P/D-019 Poster
 GROUND DEFORMATIONS ASSOCIATED WITH THE 2000 ACTIVITY OF MT. USU
 Hitoshi Y. MORI, Fumiaki KIMATA, Keigo YAMAMOTO, Rikio MIYAJIMA, Tetsuro TAKAYAMA, Atsuo SUZUKI

1400-296 V11/03P/D-020 Poster
 POSTDOMING CONTINUOUS SUBSIDENCE AFTER THE 2000 ACTIVITY OF MT. USU
 Hitoshi Y. MORI, Atsuo SUZUKI

1400-297 V11/03P/D-021 Poster
 MULTITEMPORAL OBSERVATIONS OF THE 2000 USU ERUPTION USING AIRBORNE MULTISPECTRAL SCANNERS
 Tetsuya JITSUFUCHI, Motoo UKAWA, Eisuke FUJITA, Yoshimitsu OKADA

1400-298 V11/03P/D-022 Poster
 SHORT PERIOD VARIATION OF VOLCANIC PLUME OF USU VOLCANO DETECTED BY IR IMAGERY
 Tsuneomi KAGIYAMA, Yohei HIYAMA, Takayuki KANEKO, Jun'ichi HIRABAYASHI

1400-299 V11/03P/D-023 Poster
 INFRASONIC WAVES ASSOCIATED WITH RECENT ERUPTIVE ACTIVITIES IN JAPAN
 Hitoshi YAMASATO

1400-300 V11/03P/D-024 Poster
 COLIMA VOLCANO NEW LAVA DOME EMPLACEMENT 2001-2003 ANALYSIS OF THE DEFORMATION PARAMETER
 Juan Jose RAMIREZ/RUIZ

1400-301 V11/03P/D-025 Poster
 BARREN ISLAND VOLCANISM - A DECADE OF OBSERVATION
 Dhanapati HALDAR, P. K. BANERJEE

1400-302 V11/03P/D-026 Poster
 CHARACTERISTICS OF PERIODICAL SIGNALS OBSERVED AT SATSUMA-IWOJIMA VOLCANO, JAPAN
 Takao OHMINATO

1400-303 V11/03P/D-027 Poster
 EVALUATION ON RECENT VOLCANIC ACTIVITY OF MT. TARUMAE, HOKKAIDO
 Jun'ichi MIYAMURA, Koji KATO, Isao MATSUSHIMA

1400-304 V11/03P/D-028 Poster
 CHANGES IN THE STYLE OF DOME GROWTH AT SOUFRIÈRE HILLS VOLCANO, MONTERRAT
 Gill E. NORTON, Peter N. DUNKLEY, Marie EDMONDS, Richard A. HERD, Glenn THOMPSON, Simon R. YOUNG

1400-305 V11/03P/D-029 Poster
 MECHANISMS OF LOCALISED FLANK DEFORMATION IN THE VALLE DEL BOVE, MOUNT ETNA, SICILY, FROM SAR INTERFEROMETRY AND FINITE ELEMENT MODELLING
 Nicki F. STEVENS, Susan ELLIS, Geoff WADGE, Charles A. WILLIAMS

1400-306 V11/03P/D-030 Poster
 FINE STRUCTURE OF THE SUBSIDENCE AT IZU-OSHIMA VOLCANO, JAPAN: INSIGHTS FROM D-INSAR WITH VERY SHORT BASELINE
 Masato FURUYA, Shuhei OKUBO

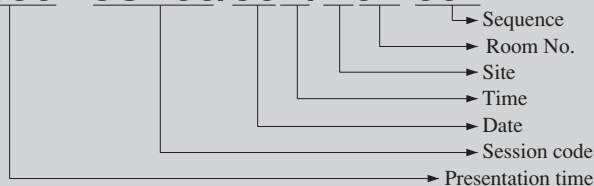
1400-307 V11/03P/D-031 Poster
 INSIGHTS IN VOLCANIC PROCESSES INSUBDUCTION RELATED VOLCANOES REVEALED BY THE COUPLED INVERSION OF DEFORMATION AND MICROGRAVITY DATA
 Philippe G. M. JOUSSET, Hiromu OKADA, Hitoshi Y. MORI, Michel DIAMENT

- 1400-308 V11/03P/D-032 Poster**
 FUMAROLIC ACTIVITY THROUGH THE RE-OPENED FAULTS FROM 1999 IN THE IWATE VOLCANO, NORTHEAST JAPAN
 Nobuo DOI, Tokumi SAITO, Saeko DOI, Masaru NODA, Tadashi NUMAKUNAI, Shin KOSHIYA, Chisato OBARA
- 1400-309 V11/03P/D-033 Poster**
 THE ERUPTION OF PAPANDAYAB VOLCANO IN NOVEMBER 2002, GARUT-WEST JAVA, INDONESIA
 Rudy Dalimin HADISANTONO, Achmad Djumarma WIRAKUSUMAH, Mas Ace PURBAWINATA, Asnawir NASUTION
- 1400-310 V11/03P/D-034 Poster**
 CHEMICAL VARIATION IN ERUPTIVE PRODUCTS OF 2002 NYIRAGONGO ERUPTION, CONGO
 Hiroyuki HAMAGUCHI, Mahinda KASEREKA, Shintaro HAYASHI, Mbilizi AKUMBI
- 1400-311 V11/03P/D-035 Poster**
 USEFULNESS OF VOLCANIC PLUME OBSERVATION FOR VOLCANO MONITORING AND PREDICTION
 Keiichi FUKUI
- 1400-312 V11/03P/D-036 Poster**
 EMPLACEMENT MECHANISM OF SERIES PYROCLASTIC FLOWS AT SEMERU VOLCANO EAST JAVA-INDONESIA
 Mas Atje PURBAWINATA, Achmad D. WIRAKUSUMAH
- 1400-313 V11/03P/D-037 Poster**
 TIME SERIES ANALYSIS OF VOLCANIC EARTHQUAKES AT SATSUMA IWO ISLAND
 Rio KOSAKA, Takehiro KOYAGUCHI, Masato IGUCHI, Hajime INAOKA
- 1400-314 V11/03P/D-038 Poster**
 A MULTI-DISCIPLINARY INTERPRETATION OF LOW-FREQUENCY VOLCANIC EARTHQUAKES
 Jorgen W. NEUBERG, Philippe G. M. JOUSSET, Susan STURTON
- 1400-315 V11/03P/D-039 Poster**
 PRECURSORS AND PREDICTION OF A LARGE EXTRUSIVE ERUPTION OF SHIVELUCH VOLCANO (KAMCHATKA) AND ITS POWERFUL EXPLOSIVE PHASE IN APRIL - MAY 2001
 Victor V. IVANOV
- 1400-316 V11/03P/D-040 Poster**
 INTEGRATED SURVEILLANCE OF THE SOUFRIERE HILLS VOLCANO, INCORPORATING NEW AUTOMATED TECHNIQUES TO OBTAIN REAL TIME CAMERA IMAGES AND SO2 EMISSIONS
 Marie EDMONDS, Richard HERD
- 1400-317 V11/03P/D-041 Poster**
 SYNCHRONIZED CRUSTAL DEFORMATION AND MICROSEISMICITY DETECTED BY MULTIDISCIPLINARY GEOPHYSICAL OBSERVATIONS IN IZU-OSHIMA VOLCANO JAPAN
 Makoto MURAKAMI, Toshiaki KIMURA, Hirokuni SHINNO, Kazuyuki MORITA, Morito MACHIDA, Seiji OKAMOTO, Yoritoshi EBINA, Akira SUZUKI

Paper Numbers

Oral Presentation

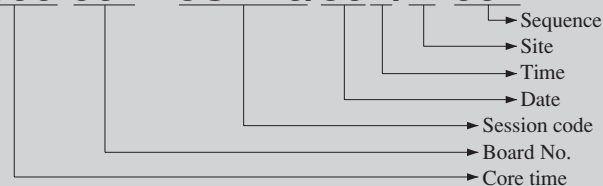
0830 JSV03/30A/A01-001



Example: 0830 JSV03/30A/A01-001 = Presentation begins at 8:30, JSV03, June 30, presentation in the morning (AM), Site A, Room 1, first paper in that session

Poster Presentation

1600-001 JSA10/30P/D-001



Example: 1600-001 JSA10/30P/D-001 = Core time begins at 16:00, Poster Board No.: 001, JSA10, June 30, core time in the afternoon (PM), Site D, first paper in that session

Friday, July 4

AM



UNION

U4 Friday, July 4 AM

GEOPHYSICAL RISK AND SUSTAINABILITY ON A CROWDED PLANET

Location: Site D, Room 32

Conveners: T. Beer, G. Heiken
Presiding Chair: G. Heiken

0830 U4/04A/D32-001

GEOPHYSICAL RISK, VULNERABILITY, AND SUSTAINABILITY
Tom BEER, Grant HEIKEN

0900 U4/04A/D32-002

SEISMIC HAZARD AND VULNERABILITY
Seiya UYEDA

0930 U4/04A/D32-003

COASTAL CITIES AND THEIR PROBLEM
Nobuo SHUTO

1000 U4/04A/D32-004

URBAN CLIMATE, WEATHER AND SUSTAINABILITY
Gerald M. MILLS

1030 BREAK

1100 U4/04A/D32-005

EARTHQUAKE LOSS ESTIMATION FOR LOW, MIDDLE AND HIGH INCOME COUNTRIES BASED ON MACROECONOMIC INDICATORS
Paula Kay DUNBAR

1130 U4/04A/D32-006

PEOPLE INDUCED GEOPHYSICAL RISKS AND SUSTAINABILITY
IAN DOUGLAS

1200 U4/04A/D32-007

THE WORLD'S INCREASING VULNERABILITY TO NATURAL DISASTERS: EVALUATION OF THE US EXPERIENCE
Gregory E. VAN DER VINK

1230 U4/04A/D32-008

GEOSPHERE, BIOSPHERE, AND SUSTAINABILITY: CHALLENGES OF A CHANGING PLANET
Berrien MOORE III



INTER-ASSOCIATION

JSA06 Friday, July 4 AM

SEISMO-, VOLCANO- AND TECTONO-ELECTROMAGNETIC EFFECTS (IAGA, IASPEI, IAVCEI)

Location: Site A, Room 9

Presiding Chairs: J. Zlotnicki, M. Johnston

LAB AND THEORY

0830 JSA06/04A/A09-001

THE DENSITY, CONSTRUCTION AND DRAG COEFFICIENT OF ELECTROSTATIC VOLCANIC ASH AGGREGATES
Mike R. JAMES, Stephen J. LANE, Jennie S. GILBERT

0845 JSA06/04A/A09-002

EXPERIMENTS AND MODELLING OF ELECTRICAL POTENTIAL CHANGES GENERATED DURING ROCK DEFORMATION
Peter SAMMONDS, Oswald CLINT, David ECCLES

0900 JSA06/04A/A09-003

PIEZOMAGNETIC SIGNALS IN A BOREHOLE DUE TO DISLOCATION SOURCES
Yoichi SASAI, Mitsuru UTSUGI, Yasunori NISHIDA

0915 JSA06/04A/A09-004

ZETA POTENTIAL MEASUREMENTS AT TEMPERATURES UP TO 200°C
Toshiyuki TOSHA, Nobuo MATSUSHIMA, Tsuneo ISHIDO

0930 JSA06/04A/A09-005

ELECTRICAL EFFECTS CAUSED BY FLANK INSTABILITY: LABORATORY AND FIELD STUDIES
Bernd ZIMANOWSKI, Ralf BUETTNER, Helmut ROEDER

0945 JSA06/04A/A09-006

CURRENTS AND COUNTER-CURRENTS IN EARTH'S CRUST
Friedemann T. FREUND

1000 JSA06/04A/A09-007

USE OF WAVELET TECHNIQUE TO STUDY THE ULF ELECTROMAGNETIC FIELD
Leonid ALPEROVICH, Valery ZHELUDEV, Masashi HAYAKAWA

1015 BREAK

1030 JSA06/04A/A09-008

MONITORING OF DEFORMATION PROCESSES BY MEANS OF OBSERVATION OF A VERTICAL COMPONENTS OF ELECTRICAL FIELD
Igor Aleksandr GARAGASH, Mikhail Borisovich GOKHBERG, Nikolai Ivanovich KOLOSNITSYN

1045 JSA06/04A/A09-009

ELECTROMAGNETIC SYGNALS INFLUENCE ON ACOUSTIC EMISSION AND SEISMICITY
Gennady A. SOBOLEV, Alexandr V. PONOMAREV, Natalia A. ZAKRZHEVSKAY

1100 JSA06/04A/A09-010

ANALYSIS OF THE TEMPORAL FLUCTUATIONS IN GEOELECTRICAL AND GEOMAGNETICAL DATA RECORDED IN SEISMIC AND VOLCANIC AREAS OF SOUTHERN ITALY: TIME DYNAMICS CHARACTERIZATION
Ciro DEL NEGRO, Gilda CURRENTI, Vincenzo LAPENNA, Luciano TELESKA, Anna VICARI

1115 JSA06/04A/A09-011

THE DISTINCTION OF SEISMIC ELECTRIC SIGNALS FROM ARTIFICIAL NOISES, WITH MODERN METHODS OF STATISTICAL PHYSICS
Nicholas V. SARLIS, Panayiotis A. VAROTSOS, Efthimios S. SKORDAS

1130 JSA06/04A/A09-012

MODEL OF PRE-SEISMIC ELECTROMAGNETIC EMISSIONS IN TERMS OF THE CRITICAL EARTHQUAKE CONCEPT AND FRACTAL-ELECTRODYNAMICS
Konstantinos A. EFTAXIAS, Panayiotis FRANGOS, John POLYGIANNAKIS, Athanasios PERATZAKIS, Panayiotis KAPIRIS, Konstantinos NOMIKOS

1145 JSA06/04A/A09-013

NETWORK SYSTEM FOR PRESEISMIC ELECTROMAGNETIC FIELD MEASUREMENTS AT A WIDE FREQUENCY RANGE, ANALYSIS FOR THE CASE OF GEIYO EARTHQUAKE
Chihiro YAMANAKA, Hiroshi ASAHARA, Kenji FUKUDA, Yutaka EMOTO, Motoji IKEYA

1200 JSA06/04A/A09-014
DURATION OF SEISMO-ELECTRIC SIGNALS CAUSED BY ELECTROKINETIC EFFECT IN FRACTAL PORE MEDIA
Vadim SURKOV, Haruo TANAKA

JSH02 Friday, July 4 AM

GROUNDWATER AND VOLCANOES (IAHS/ICGW, IAVCEI)
Location: Site A, Room 16

Co-Conveners: S.B. Gingerich, K. Kazahaya, Y. Suzuki, J.S. Walder
Presiding Chairs: M. Yasuhara, K. Kazahaya

0900 JSH02/04A/A16-001 Invited
NUMERICAL SIMULATION OF MULTIPHASE GROUNDWATER FLOW IN VOLCANOES
Shaul HURWITZ, Kenneth L. KIPP, Steven E. INGBRITSEN

0930 JSH02/04A/A16-002
ESTIMATION OF METEORIC WATER INFILTRATION DEPTH FROM ISOTOPIC STUDIES OF FLUID INCLUSIONS IN THE KAKKONDA GEOTHERMAL RESERVOIR, JAPAN
Daisuke FUKUDA, Kaichiro KASAI, Osamu KATO, Nobuo DOI, Kazuo KOIDE, Masami NOTO

0950 JSH02/04A/A16-003
INTERACTION BETWEEN MAGMATIC FLUID AND METEORIC WATER IN HYDROTHERMAL SYSTEM INFERRED FROM NOBLE GAS ISOTOPIC COMPOSITIONS OF FUMAROLIC GASES AT KUSATSU SHIRANE VOLCANO, JAPAN
Michiko OHWADA, Takeshi OHBA, Jun-ich HIRABAYASHI, Kenji NOGAMI, Keisuke NAGAO

1010 JSH02/04A/A16-004
ORIGIN AND EVOLUTION OF GEOTHERMAL WATERS AT THE FOOT OF THE KENASHI-YAMA VOLCANO, CENTRAL JAPAN; ISOTOPIC AND CHEMICAL CONSTRAINTS
Ould Elemine CHEIBANY, Naoki WATANABE, Hideyuki SATO, Masaki YUHARA

1030 BREAK

1050 JSH02/04A/A16-005
CHARACTERISTICS OF HYDROTHERMAL ACTIVITIES IN THE IZU-OGASAWARA (BONIN) ARC, JAPAN
Kokichi IIZASA

1110 JSH02/04A/A16-006
RELATIONS BETWEEN HYDROGEOCHEMICAL ANOMALIES AND ERUPTIVE ACTIVITY AT MEXICAN VOLCANOES. EFFECTIVE AND INEXPENSIVE DETECTION METHODS
Aurora ARMIENTA, Servando DE LA CRUZ-REYNA, M. Antonia CARVAJAL, Silvia RAMOS, Nick VARLEY, Nora CENICEROS, Olivia CRUZ, Alejandra AGUAYO

1130 JSH02/04A/A16-007
THE SPATIAL VARIATION OF MAGMATIC CARBON DIOXIDE CONTRIBUTION IN SOIL AIR AT UNZEN VOLCANO, SW JAPAN
Hiroshi A. TAKAHASHI, Kohei KAZAHAYA, Hiroshi SHINOHARA, Noritoshi MORIKAWA, Toshio NAKAMURA

1150 JSH02/04A/A16-008
RESERVOIR MONITORING USING REPEATED GPS AND MICRO-GRAVITY SURVEY AT HATCHOBARU GEOTHERMAL FIELD, CENTRAL KYUSHU, JAPAN
Jun NISHIJIMA, Nozomu SAKAMURA, Yasuhiro FUJIMITSU, Sachio EHARA, Etsuro KOUNO, Masao YAMAUCHI

JWH02 Friday, July 4 AM

THE ROLE OF GEWEX HYDROMETEOROLOGICAL SCIENCE IN IMPROVED WATER RESOURCES MANAGEMENT (IAHS, IAMAS)

Location: Site A, Room 15

Presiding Chairs: R. Stewart, F. Chiew

0830 JWH02/04A/A15-001
THE USE OF COUPLED METEOROLOGICAL/HYDROLOGICAL MODELS FOR FLOOD SIMULATION
Charles A. LIN, Lei WEN, Diane CHAUMONT, Michel BÉLAND

0900 JWH02/04A/A15-002
ATMOSPHERIC FORCING FOR THE NOHRSC SNOW MODEL FROM THE RUC COUPLED ATMOSPHERIC / LAND-SURFACE ASSIMILATION/FORECAST SYSTEM
Stan BENJAMIN, Tatiana SMIRNOVA, Greg FALL, Don CLINE

0920 JWH02/04A/A15-003
LARGE EDDY SIMULATIONS OF WET CONVECTION IN RONDONIA (AMAZON)
Renato R. SILVA, Roni AVISSAR

0940 JWH02/04A/A15-004
AN ASSESSMENT OF TWO LAND SURFACE SCHEMES UNDER SUBARCTIC TUNDRA CONDITIONS
Lei WEN, Charles A. LIN, Lingying TONG, David RODGERS, Diane CHAUMONT

1000 BREAK

1020 JWH02/04A/A15-005
IMPLICATIONS OF CLIMATE VARIABILITY AND CHANGE FOR RIVER BASIN PLANNING AND MANAGEMENT
Aris P. GEORGAKAKOS, Konstantine P. GEORGAKAKOS

1110 JWH02/04A/A15-006
THE INFLUENCE OF ENSO ON RAINFALL AND FLOW IN THE UPPER PING RIVER OF THAILAND AND ITS HYDRO-CLIMATIC PREDICTABILITY
Chayanis MANUSTHIPAROM, Shinjiro KANAE, Taikan OKI

1130 JWH02/04A/A15-007
PROBABILISTIC CHARACTERIZATION OF UNCERTAINTIES OF CLIMATE SCENARIOS AND DERIVED HYDROLOGICAL IMPACT ASSESSMENTS FOR THE UPPER DANUBE RIVER BASIN
Andreas H. SCHUMANN

1150 JWH02/04A/A15-008
MULTI-DECADAL CLIMATE VARIABILITY, NEW SOUTH WALES
Stewart William FRANKS, Anthony S. KIEM

1210 JWH02/04A/A15-009
SEASONAL PREDICTABILITY OF DAILY PRECIPITATION: FREQUENCY OF HEAVY EVENTS
Alexander GERSHUNOV, Dan CAYAN

JSM02 Friday, July 4 AM

THE SURFACE OCEAN-LOWER ATMOSPHERE STUDY (IAMAS [ICACGP, ICPM], IAPSO)
Location: Site B, Room 22

Presiding Chairs: L.-Q. Chen, H. Yoshikawa-Inoue

0830 JSM02/04A/B22-001
MATHEMATICAL CLASSIFICATION OF 3D PERIODIC MOTIONS IN VISCOUS ROTATING AND STRATIFIED FLUIDS
Yuli D. CHASHECHKIN, Anatolii V. KISTOVICH

0910 JSM02/04A/B22-002
DRAG COEFFICIENT OVER INDIAN OCEAN DURING INDOEX
P.K. KUNHIKRISHNAN, M. Venkata RAMANA, Praveena KRISHNAN

0930 JSM02/04A/B22-003
THEORETICAL CLASSIFICATION OF DISCRETE SYMMETRIES OF BENARD-RAYLEIGH CONVECTION PATTERNS
Anatolii V. KISTOVICH, Yuli D. CHASHECHKIN

0950 JSM02/04A/B22-004
EFFECT OF SURFACE WAVES ON AIR-SEA MOMENTUM FLUX UNDER HURRICANES
Il-Ju MOON, Tetsu HARA, Isaac GINIS

1010 JSM02/04A/B22-005
THE INFLUENCE OF TROPICAL CYCLONES ON THE OXYGEN DISTRIBUTION IN THE WIND-MIXED LAYER OF THE OCEAN
Sergei A. PETRICHENKO, Vladimir D. PUDOV

1030 BREAK

1050 JSM02/04A/B22-006
MEASUREMENTS OF NITROUS OXIDE CONCENTRATIONS IN AIR AND SEAWATER IN THE WESTERN PACIFIC EQUATORIAL OCEAN
Hiroshi ISHIDA, Mitsuru HAYASHI

1110 JSM02/04A/B22-007
LABORATORY MEASUREMENTS OF CO₂ TRANSFER VELOCITY IN WIND-DRIVEN TURBULENCE WITH SWELL
Kenji TANNO, Satoru KOMORI

1130 JSM02/04A/B22-008
ESTIMATION OF AIR-SEA EXCHANGE COEFFICIENT AND ITS EVALUATION
Rieko INOUE, Masatoshi AKIYAMA, Chaofang ZHAO

1150 JSM02/04A/B22-009
ON-BOARD DIRECT CO₂ FLUX MEASUREMENT WITH EDDY COVARIANCE METHOD OVER OPEN OCEAN
Osamu TSUKAMOTO, Satoshi TAKAHASHI, Takehiko KONO, Eiji YAMASHITA, Akihiko MURATA, Hiroshi ISHIDA

1210 JSM02/04A/B22-010
CO₂ EXCHANGE ACROSS AIR-SEA INTERFACE OVER THE COASTAL OCEAN
Toru IWATA

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JSM05 Friday, July 4 AM**SOLAR EFFECTS IN THE MIDDLE ATMOSPHERE AND IONOSPHERE (IAMAS [ICMA/IRC], IAGA, SCOSTEP)**

Location: Site C, Room 28

Conveners: L. Hood
Presiding Chairs: L. Hood, J. McCormack**0900 JSM05/04A/C28-001**SOLAR CYCLE VARIATIONS OF SOLAR ULTRAVIOLET IRRADIANCE
Gary J. ROTTMAN, Thomas N. WOODS**0920 JSM05/04A/C28-002**OBSERVATIONS AND 2-D MODEL SIMULATIONS OF THE 11-YEAR SOLAR CYCLE VARIATION NEAR THE STRATOPAUSE
John P. MCCORMACK**0950 JSM05/04A/C28-003**SOLAR EFFECTS IN THE STRATOSPHERIC OZONE ESTIMATED BY A CHEMISTRY-CLIMATE MODEL
Tatsuya NAGASHIMA**1010 JSM05/04A/C28-004**STRATOSPHERIC OZONE SENSITIVITY TO THE SHORT-TERM SOLAR UV AND TEMPERATURE VARIATIONS IN SOLAR CYCLE 23
Shuntai ZHOU, Alvin J. MILLER**1040 BREAK****1100 JSM05/04A/C28-005**MODELLING THE 11-YEAR SOLAR CYCLE VARIATIONS IN THE STRATOSPHERE: THE GRIPS SOLAR INTERCOMPARISON AND RECENT DEVELOPMENTS
Ulrike LANGEMATZ**1130 JSM05/04A/C28-006**SOLAR CYCLE VARIATIONS IN THE STRATOSPHERE: PROCESSES AND SOME MODEL RESULTS
John AUSTIN**1200 JSM05/04A/C28-007**MESOSPHERIC OZONE AND TEMPERATURE RESPONSE TO SOLAR ROTATIONAL FORCING
Elsayed R. TALAAT, Jeng-Hwa YEE, Xun ZHU, Dong WU, James RUSSELL III**JSM12 Friday, July 4 AM****THE TREATMENT OF PRECIPITATION IN CLOUD AND CLIMATE MODELS (IAMAS [ICCP, ICCL], IAHS)**

Location: Site B, Room 23

Conveners: W. Grabowski, U. Lohmann
Presiding Chair: W. Grabowski**0830 JSM12/04A/B23-001 Invited**A SUMMARY OF GCSS WG-4 ATMOSPHERIC RADIATION MEASUREMENT (ARM) CASE 3 INTERCOMPARISON STUDY
Kuan-Man XU, Steven K. KRUEGER, David A. RANDALL, Shaocheng XIE**0855 JSM12/04A/B23-002**SENSITIVITY OF SCM SIMULATIONS OF ARCTIC SPRING TIME CLOUDS TO DIFFERENT CLOUD COVER AND MIXED PHASE CLOUD PARAMETERIZATIONS
Junhua ZHANG, Ulrike LOHMANN**0920 JSM12/04A/B23-003**SIMULATION OF HEAVY PRECIPITATION EVENTS USING DIFFERENT CLOUD MICROPHYSICS PARAMETERIZATIONS IN A MESOSCALE MODEL
Someshwar DAS, Prabhawati L, Sowjanya K**0945 JSM12/04A/B23-004**POPULATION DYNAMICS AND CONVECTIVE CLOUD FIELDS
Frank J. NOBER, Hans F. GRAF**1010 BREAK****1030 JSM12/04A/B23-005**USING UNCERTAINTY FOR THE DEVELOPMENT OF A NEW CONVECTIVE PARAMETERIZATION TECHNIQUE
Georg GRELL, Dezso DEVENYI, Mariusz PAGOWSKI, Stephen WEYGANDT, Stan BENJAMIN**1055 JSM12/04A/B23-006**A MODELING STUDY OF CLOUD MICROPHYSICS: CONVECTIVE AND STRATIFORM RAINFALL
Chung-Hsiung SUI, Xiaofan LI**1120 JSM12/04A/B23-007**LARGE-SCALE THREE-DIMENSIONAL NUMERICAL EXPERIMENTS OF TROPICAL CONVECTION
Tomoe NASUNO, Teruyuki KATO**1145 JSM12/04A/B23-008**EFFECTS OF MOISTURE PROFILES ON THE MODE OF CUMULUS CONVECTION OVER THE TROPICAL WESTERN PACIFIC
Tetsuya TAKEMI, Osamu HIRAYAMA, Changhai LIU**1210 JSM12/04A/B23-009**DERIVATION, APPLICATION, AND MODELING OF TRUE STOCHASTIC COALESCENCE EQUATIONS
Lian-Ping WANG**JSM16 Friday, July 4 AM****THE ROLE OF ATMOSPHERIC PROCESSES IN MASS BALANCE EXCHANGE IN THE POLAR REGIONS (IAMAS [ICPM, ICDM], IAHS)**

Location: Site C, Room 31

Conveners: R. Bintanji
Co-Conveners: M.V.D. Broeke, K. Nishimura, E.M. Morris
Presiding Chair: E.M. Morris**0930 JSM16/04A/C31-001**LONGWAVE RADIATIVE FLUX DIVERGENCE MEASUREMENTS IN THE STABLE ARCTIC BOUNDARY LAYER
Sebastian W. HOCH, Atsumu OHMURA, Pierluigi CALANCA**1000 JSM16/04A/C31-002**HEAT AND WATER BALANCE AT INLAND DOME FUJI STATION, EAST ANTARCTICA
Hideaki MOTOYAMA, Naohiko HIRASAWA, Masahiko HAYASHI, Takashi YAMANOUE, Susumu KANETO, Nobuyoshi ISHIKAWA**1030 BREAK****1100 JSM16/04A/C31-003**SEASONAL VARIABILITY OF THE BOUNDARY LAYER STRUCTURE AT SUMMIT, GREENLAND
Peter SCHELANDER, Atsumu OHMURA, Pierluigi CALANCA**1130 JSM16/04A/C31-004**EXPERIMENTAL STUDY OF THE PBL STRUCTURE IN ARCTIC CONDITIONS AND VERIFICATION OF PBL HEIGHT ESTIMATION METHODS
Alexander A. BAKLANOV, Alexander A. KUCHIN**1200 JSM16/04A/C31-005**BLOWING SNOW OBSERVATIONS AT MIZUHO STATION, ANTARCTICA
Kouichi NISHIMURA, Masaki NEMOTO**JSP02 Friday, July 4 AM****NEW PERSPECTIVES OF COUPLED TROPICAL OCEAN-ATMOSPHERE DYNAMICS AND PREDICTABILITY (IAPSO, IAMAS, CLIVAR)**

Location: Site B, Room 20

Presiding Chairs: P. Chang, S. Behera

0830 JSP02/04A/B20-001A REVIEW OF PROGRESS TOWARD SUSTAINED OBSERVATIONS OF CLIMATE IN THE INDIAN OCEAN
Gary MEYERS**0850 JSP02/04A/B20-002 Invited**COUPLED VARIABILITY IN THE INDIAN OCEAN AND ITS IMPACT ON GLOBAL INTERANNUAL CLIMATE VARIATIONS
Saji N. HAMEED, Toshio YAMAGATA**0910 JSP02/04A/B20-003 Invited**TRIGGERS FOR TROPICAL INDIAN OCEAN VARIABILITY AND LINKS TO ENSO IN A CONSTRAINED COUPLED CLIMATE MODEL
Albert S. FISCHER, Pascal TERRAY, Eric GUILYARDI, Silvio GUALDI, Pascale DELECLUSE**0930 JSP02/04A/B20-004**THE INDIAN OCEAN DIPOLE: PHYSICAL EXISTENCE AND INFLUENCE ON THE SOUTHERN OSCILLATION
Swadhin Kumar BEHERA, Toshio YAMAGATA**0945 JSP02/04A/B20-005**THE EAST ASIAN SUMMER CLIMATE VARIABILITY: IOD TELECONNECTION
Zhaoyong GUAN, Ashok KARUMURI, Toshio YAMAGATA**1000 JSP02/04A/B20-006**UNDERSTANDING THE DYNAMICS OF THE INDIAN OCEAN DIPOLE'S IMPACT ON ENSO-INDIAN MONSOON RELATIONSHIP
Ashok KARUMURI, Zhaoyong GUAN, Toshio YAMAGATA**1015 JSP02/04A/B20-007**THE INDIAN OCEAN ZONAL MODEL IN A COUPLED, DYNAMICAL SEASONAL PREDICTION MODEL
Hilary SPENCER, Julia SLINGO, Rowan SUTTON

1030	BREAK	
1050	JSP02/04A/B20-008	
INDIAN OCEAN-ATMOSPHERE COUPLED VARIABILITY IN THE CSIRO COUPLEDCLIMATE MODEL		
Harry HENDON, Wenju CAI, Gary MEYERS		
1110	JSP02/04A/B20-009	Invited
PROSPECTS FOR SEASONAL FORECASTING OF INDIAN OCEAN SECTOR CLIMATE VARIABILITY		
Roxana C. WAJSOWICZ, Sonya MILLER, Augustin VINTZILEOS		
1130	JSP02/04A/B20-010	
STRUCTURE AND SEASONAL DEPENDENCE OF AIR-SEA COUPLING IN THE TROPICAL INDIAN OCEAN		
Suryachandra Rao ANGULURI, Swadhin Kumar BEHERA, Toshio YAMAGATA		
1145	JSP02/04A/B20-011	
A CGCM SIMULATION OF THE SUBTROPICAL DIPOLE EVENTS IN THE INDIAN OCEAN		
Rieko SUZUKI, Swadhin Kumar BEHERA, Satoshi IIZUKA, Toshio YAMAGATA		
1200	JSP02/04A/B20-012	
ANOMALOUS OCEANIC CIRCULATION IN THE INDIAN OCEAN DIPOLE		
Qigeng ZHAO		

JSP03	Friday, July 4 AM
GROUNDWATER INPUTS TO THE OCEAN (IAPSO, IAHS)	
Location: Site C, Room 29	

Convener: E.A. Kontar
Co-Conveners: W.C. Burnett, M. Taniguchi, T. Gama
Presiding Chair: E. Kontar

0830	JSP03/04A/C29-001	Invited
WHAT CONSTITUTES SUBMARINE GROUND WATER DISCHARGE?		
Jonathan B. MARTIN, Jaye E. CABLE, Peter W. SWARZENSKI, Jehangir BHADHA, Eric DAVIS		
0900	JSP03/04A/C29-002	
ENVIRONMENTAL AND ECOLOGICAL INFLUENCES OF SUBMARINE GROUNDWATER DISCHARGE IN THE COASTAL SEAS OF KOREA		
Guebuem KIM, Dong-Woon HWANG		
0920	JSP03/04A/C29-003	
ESTIMATES OF GROUNDWATER DISCHARGE INTO A BOAT BASIN IN DONNALUCATA, SICILY BASED ON RADON MEASUREMENT		
Bill BURNETT, Henrieta DULAIOVA, Pavel POVINEC		
0940	JSP03/04A/C29-004	
SUBMARINE GROUNDWATERDISCHARGE IN KUROBE OFFSHORE,JAPAN		
Kenichi SAEKI, Kenichi SAEKI, Makoto TANIGUCHI, Tomochika TOKUNAGA, Jun SHIMADA		

1000	BREAK	
1030	JSP03/04A/C29-005	
SUBTERRANEAN INJECTION OF NUTRIENT RICH GROUNDWATER TO THE COASTAL WATERS.		
Joseph Sebastian PAIMPILLIL, Balachandran K.		
1050	JSP03/04A/C29-006	
QUANTIFYING TIDAL EFFECTS ON SUBMARINE GROUNDWATER DISCHARGE		
Carmen PRIETO, Georgia DESTOUNI		
1110	JSP03/04A/C29-007	
SUBMARINE GROUNDWATER DISCHARGE INTO THE NEAR-SHORE ZONE OF THE GREAT BARRIER REEF, AUSTRALIA		
Thomas C. STIEGLITZ, Peter V. RIDD, Mal L. HERON, Gregg J. BRUNSKILL, Derek M.BURRAGE, Michael K. GAGAN		
1130	JSP03/04A/C29-008	
SGD STUDIES ON THE EAST COAST OF INDIA USING NUTRIENTS AND RA ISOTOPES		
Bhamidipati L.K. SOMAYAJULU, V.V. SARMA		
1150	JSP03/04A/C29-009	
POTENTIAL AREAS OF SUBSURFACE FRESHWATER DISCHARGE TO THE OCEANS		
Klaus-Peter SEILER		
1210	JSP03/04A/C29-010	
QUANTIFYING THE CONTRIBUTION OF DENSITY-DEPENDENT SEAWATER CIRCULATION TO ESTIMATES OF SUBMARINE GROUNDWATER DISCHARGE		
Anthony J. SMITH		

JSP05	Friday, July 4 AM
WORLDWIDE SEA LEVEL CHANGE (IAPSO, IAG)	
Location: Site C, Room 30	
Presiding Chair: C.L. Provost	
0930	JSP05/04A/C30-001
GEODETIC DETERMINATION OF THE SEA SURFACE TOPOGRAPHY ALONG EASTERN MEDITERRANEAN, AEGEAN AND BLACK SEA	
Coskun DEMIR, Ali KILICOGLU, Hasan YILDIZ, Emin AYHAN	
0950	JSP05/04A/C30-002
VERTICAL CRUSTAL MOTION ESTIMATES FOR THE UK INFERRED FROM CONTINUOUS GPS AND ABSOLUTE GRAVIMETRY MEASUREMENTS: PRELIMINARY RESULTS	
F. Norman TEFERLE, Richard M. BINGLEY, Alan H. DODSON, Trevor F. BAKER, Simon D.P. WILLIAMS	
1010	JSP05/04A/C30-003
PERMANENT GPS NETWORK IN GREENLAND	
Mette M. WEBER, Finn Bo MADSEN, Shfaqat Abbas KHAN	

1030	BREAK	
1100	JSP05/04A/C30-004	
AIRBORNE ALTIMETRY AND GPS-BASED BUOY DEPLOYMENT: CONTRIBUTION TO CALIBRATION OF SATELLITE RADAR ALTIMETRY AT THE JASON CALIBRATION SITE GAVDOS, GREECE		
Alain GEIGER, Hans-Gert KAHLE, Etienne FAVEY, Stelios MERTIKAS, Rene FORSBERG		
1120	JSP05/04A/C30-005	
GEODETIC MONITORING OF SEA LEVEL RISE ALONG INDIAN COAST		
Nagarajan BALASUBRAMANIAN, G.D. GUPTA		
1140	JSP05/04A/C30-006	
IGS TIDE GAUGE BENCHMARK MONITORING PILOT PROJECT: A PROGRESS REPORT		
Tilo SCHOENE		
1200	JSP05/04A/C30-007	
COMPUTATIONS OF SEA SURFACE TOPOGRAPHY IN THE POTENTIAL SPACE VS. THE GEOMETRY SPACE; CASE STUDYS		
Abdolreza SAFARI, Alireza A. ARDALAN		

JSS03-Posters	Friday, July 4 AM
LONG-TERM IN-SITU OCEAN OBSERVATORIES AND OBSERVATIONS (IASPEI, IAG, IAGA, IAPSO, ION)	
Location: Site D	

Presiding Chair: H. Utada

0830-042	JSS03/04A/D-001	Poster
EVALUATION OF ACCURACY IN KINEMATIC GPS ANALYSES FOR SEAFLOOR GEODESY		
Satoshi MIURA, Aaron D. SWEENEY, Hiromi FUJIMOTO, Hiro OSAKI, Eiji KAWAI, Ryuichi ICHIKAWA, Tetsuro KONDO, Yukihito OSADA, C. David CHADWELL		
0830-043	JSS03/04A/D-002	Poster
EFFECTS OF MAJOR ERROR SOURCES IN THE SEAFLOOR GEODETIC OBSERVATION		
Mariko SATO, Masayuki FUJITA, Tetsuichiro YABUKI, Masashi MOCHIZUKI, Zengo YOSHIDA, Akira ASADA		
0830-044	JSS03/04A/D-003	Poster
REPEATABILITY OF GPS/ACOUSTIC SEAFLOOR POSITIONINGCARRIED OUT NEAR HAWAII ISLAND AND THE JAPAN TRENCH		
Yukihito OSADA, Hiromi FUJIMOTO, Satoshi MIURA, Hajime SHIOBARA, Toshihiko KANAZAWA, John A. HILDEBRAND, C. David CHADWELL		
0830-045	JSS03/04A/D-004	Poster
INFLUENCE OF TRANSDUCER DIMENSION ON SEAFLOOR GEODETIC OBSERVATION		
Masashi MOCHIZUKI, Zengo YOSHIDA, Mariko SATO, Masayuki FUJITA, Tetsuichiro YABUKI, Akira ASADA		
0830-046	JSS03/04A/D-005	Poster
THE ACCURACY OF TRAJECTORY ESTIMATION OF A SURVEY VESSEL WITH KINEMATIC GPS TECHNIQUE		
Tetsuichiro YABUKI, Masayuki FUJITA, Mariko SATO, Masato KATAYAMA, Akira ASADA, Masashi MOCHIZUKI, Oscar L. COLOMBO		
0830-047	JSS03/04A/D-006	Poster
A LONG-TERM ELECTRICAL POTENTIAL VARIATIONS AT JAPAN SEA CABLE		
Sergey Stanislavovich STARJINSKY		

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0830-048 JSS03/04A/D-007 Poster
DETECTABILITY OF DECADEAL VARIATIONS OF THE SURFACE ELECTRIC
POTENTIAL GENERATED BY OSCILLATING ZONAL FLOWS IN EARTH'S CORE
Hisayoshi SHIMIZU, Hisashi UTADA

0830-049 JSS03/04A/D-008 Poster
APPROACH TO LONG-TERM SEAFLOOR OBSERVATIONS OF ELECTRIC AND
MAGNETIC FIELDS USING A SUBMARINE CABLE
Keizo SAYANAGI, Toshiyasu NAGAO, Tohru Ikurumi YAMAGUCHI, Isao
WATABE, Yukio FUJINAWA, Sin-Iti IWASAKI, Nobuhito ONISHI, Takeo
ICHIKITA, Naoya TAKAMURA, Tada-nori GOTO

0830-050 JSS03/04A/D-009 Poster
TWELVE YEARS OF RESULTS FROM ODP SUBSEAFLOOR CORK
HYDROGEOLOGICAL OBSERVATORIES
Keir BECKER, Earl E. DAVIS

0830-051 JSS03/04A/D-010 Poster
BOREHOLE OBSERVATORIES BENEATH JAPAN TRENCH FOREARC
Kiyoshi SUEHIRO, Selwyn SACKS, Eiichiro ARAKI, Masanao SHINOHARA,
Alan LINDE, Toshihiko KANAZAWA, Takeshi SATO, Hitoshi MIKADA, Masataka
KINOSHITA, Yoshio FUKAO

0830-052 JSS03/04A/D-011 Poster
BROADBAND SEISMIC OBSERVATIONS AT THE HAWAII-2 OBSERVATORY
DURING ODP LEG 200: PART 1 - OVERVIEW, DRILLING NOISE AND
SEDIMENT RESONANCES
Ralph A. STEPHEN, F. K. DUENNEBIER, D. HARRIS, J. JOLLY, S. T. BOLMER,
P. BROMIRSKI, ODP Leg 200 Scientific Party

0830-053 JSS03/04A/D-012 Poster
SEISMIC NOISE LEVELS OF THE SEAFLOOR BOREHOLE BROADBAND
SEISMIC OBSERVATORIES IN THE NORTHWESTERN PACIFIC
Masanao SHINOHARA, Toshihiko KANAZAWA, Eiichiro ARAKI, Kiyoshi
SUEHIRO, Hajime SHIOBARA, Tomoaki YAMADA, Kazuo NAKAHIGASHI,
Hitoshi MIKADA, Yoshio FUKAO

0830-054 JSS03/04A/D-013 Poster
LONG-TERM BROADBAND OCEAN BOTTOM OBSERVATION WITH MOBILITY
Hajime SHIOBARA, Toshihiko KANAZAWA, Hiroko SUGIOKA, Masanao
SHINOHARA, Masashi MOCHIZUKI, Tomoki WATANABE, Yoshio FUKAO

0830-055 JSS03/04A/D-014 Poster
DOUBLE SEISMIC ZONE IN THE HOKKAIDO ISLAND, SOUTHERN KURIL ARC,
DERIVED FROM OFF-KUSHIRO PERMANENT OBS AND LAND-BASED
OBSERVATIONS
Tomoki WATANABE, Riyo OTSUKA, Hitoshi MIKADA, Kenji HIRATA, Hiroaki
TAKAHASHI, Minoru KASAHARA, Kiyoshi SUEHIRO

0830-056 JSS03/04A/D-015 Poster
PROPOSAL OF SCIENTIFIC UNDERWATER CABLE NETWORK OF NEXT
GENERATION
Yuichi SHIRASAKI, Takao NISHIDA, Minoru YOSHIDA, Katsuyoshi
KAWAGUCHI, Kenichi ASAKAWA

0830-057 JSS03/04A/D-016 Poster
DATA DISTRIBUTION OF JAMSTEC CABLED SEAFLOOR OBSERVATORIES
Riyo OTSUKA, Shigehiko MORITA, Hiroko SUGIOKA, Kenji HIRATA, Ryoichi
IWASE, Kyohiko MITSUZAWA, Hitoshi MIKADA, Kiyoshi SUEHIRO

0830-058 JSS03/04A/D-017 Poster
MEASURINGS OF LONG WAVES AT THE COAST OF KUNASHIR ISLAND,
KURIL ISLANDS.
Peter D. KOVALEV, Grigory V. SHEVCHENK, Dmitry P. KOVALEV

JSS05 Friday, July 4 AM

PHYSICS AND CHEMISTRY OF EARTH MATERIALS (IASPEI, IAVCEI, IAGA)
Location: Site A, Room 4

Presiding Chairs: I. Jackson, T. Yagi

MANTLE/CORE MINERALOGY AND PETROLOGY

0830 JSS05/04A/A04-001
THERMODYNAMIC PROPERTIES AND STABILITY RELATIONS OF HIGH
PRESSURE SILICATES IN THE SYSTEM CAO-SIO₂-TIO₂
Masaki AKAOGI, Yasuko TEJIMA, Hiroshi KOJITANI

0850 JSS05/04A/A04-002
CATION SUBSTITUTIONS AND STRUCTURE VARIATIONS OF PEROVSKITES
UNDER THE LOWER MANTLE CONDITIONS
Kiyoshi FUJINO, Hisayuki OGAWA, Yohei SASAKI, Hiroyuki IZUMI, Kaushik
DAS, Nagayoshi SATA, Nobuyoshi MIYAJIMA, Takehiko YAGI, Naotaka
TOMIOKA, Ichiro ONISHI

0910 JSS05/04A/A04-003
IN SITU X-RAY OBSERVATIONS OF PHASE TRANSITIONS UP TO 50 GPa
USING A COMBINATION OF SYNCHROTRON RADIATION AND KAWAI-TYPE
APPARATUS
Tetsuo IRIFUNE, Yuichiro SUEDA, Takeshi SANEHIRA, Norimasa NISHIYAMA,
Daisuke YAMAZAKI, Toru INOUE, Ken-ichi FUNAKOSHI

0930 JSS05/04A/A04-004
POST-GARNET TRANSFORMAION IN WET MORB AND DYNAMICS OF SLABS
Eiji OHTANI, Asami SANO, Konstantin LITASOV, Tomoaki KUBO, Tadashi
KONDO

0950 JSS05/04A/A04-005
PROPERTY OF PYROLITE AT THE TOP OF THE LOWER MANTLE
Takehiko YAGI, Norimasa I. NISHIYAMA

1010 BREAK

ELASTICITY AND ANELASTICITY

1030 JSS05/04A/A04-006
BEHAVIOR AND ELASTIC PROPERTIES OF MANTLE SILICATES: RESULTS
FROM ULTRASONIC VELOCITY MEASUREMENTS TO 25 GPa
Baosheng LI, Jennifer KUNG, Jianzhong ZHANG, Yanbin WANG, Takeyuki
UCHIDA

1050 JSS05/04A/A04-007
ELASTIC WAVE VELOCITIES ANISOTROPY AND DISPERSION IN CRACKED
ROCKS
Alexandre SCHUBNEL, Yves GUÉGUEN

1110 JSS05/04A/A04-008
A NEW UNDERSTANDING OF FLUID/ROCK DEFORMATION IN A COMPLIANT
CRACK-CRITICAL (CCC) EARTH
Stuart CRAMPIN, Sheila PEACOCK

1130 JSS05/04A/A04-009
THERMORHEOLOGICAL CONSTITUTIVE FLOW LAWS FOR ROCKS WITH
TRANSIENT BEHAVIOR
Yusuke KAWADA, Hiroyuki NAGAHAMA

1150 JSS05/04A/A04-010
SEISMIC WAVE ATTENUATION AND DISPERSION IN MELT-FREE AND MELT-
BEARING OLIVINE AGGREGATES ATTRIBUTED TO GRAIN-BOUNDARY
SLIDING
Ian JACKSON, Ulrich H. FAUL, John D. FITZ GERALD

1210 JSS05/04A/A04-011
NUMERICAL SIMULATION OF ELASTO-PLASTIC DEFORMATION OF A ROCK
SAMPLE IN EXTENSION
Shayesteh MEHRABIAN

JWS04 Friday, July 4 AM

SUBSURFACE THERMAL SIGNATURES OF TECTONICS, HYDROGEOLOGY AND PALEOCLIMATE (IASPEI, IAVCEI, IAGA, IAPSO, IAMAS, IAHS)
Location: Site A, Room 11

Program Group M. Taniguchi, V. Cermak, C. Clauser
Presiding Chairs: C. Clauser, M. Taniguchi

0830 JWS04/04A/A11-001
A GEOTHERMAL CLIMATE CHANGE OBSERVATORY IN THE SOUTHERN
HEMISPHERE
Valiya M. HAMZA, Bruna N. CERRONE, Antonio J.L. GOMES, Roberta A.
CARDOSO

0845 JWS04/04A/A11-002
CENTURY LONG CLIMATE WARMING DETECTED IN BOREHOLE
TEMPERATURE, KAMCHATKA STORY
Vladimir CERMAK, Jan SAFANDA, Makoto YAMANO, Toshiyasu NAGAO,
Makoto TANIGUCHI, Yasu OKUBO, Akinobu MIYAKOSHI, Evgeni GORDEEV,
Louise BODRI

0900 JWS04/04A/A11-003
PALEOCLIMATE AND SEDIMENTATION - COMPETING THERMAL
SIGNATURES IN YOUNG SEDIMENTARY BASINS. CASE STUDY - THE
TRANSYLVANIAN AND FOCSANI DEPRESSIONS, ROMANIA
Crisan DEMETRESCU, Maria ANDREESCU, Delia Zemira SERBAN, Helmut
WILHELM

0915 JWS04/04A/A11-004
EFFECTS OF CLIMATE CHANGES AND GROUNDWATER FLOW ESTIMATED
FROM REPEATED MEASUREMENTS OF BOREHOLE TEMPERATURE DURING
10 YEARS IN TOKYO METROPOLITAN, JAPAN
Yasuo SAKURA, Makoto TANIGUCHI, Akinobu MIYAKOSHI, Masaya SHISHIDO,
Shinichi KAWASHIMA, Youhei UCHIDA

0930 JWS04/04A/A11-005
EFFECTS OF CLIMATE CHANGES AND GROUNDWATER FLOW ON SUBSURFACE TEMPERATURES - A DATA BASE OF SURFACE AND SUBSURFACE TEMPERATURES -
Makoto TANIGUCHI, Yasuo SAKURA, Akinobu MIYAKOSHI, Yohei UCHIDA

0945 JWS04/04A/A11-006
DEEP GROUNDWATER DISCHARGE AND GROUND SURFACE PHENOMENA
Tameshige TSUKUDA, Keinosuke GOTOH, Osamu SATO

1000 JWS04/04A/A11-007
FLUID FLOW REGIME ALONG THE WESTERN NANKAI ACCREIONARY COMPLEX DETECTED BY CLOSELY-SPACED HEAT FLOW MEASUREMENTS
Masataka KINOSHITA, Makoto YAMANO, Shusaku GOTO, Sean GULICK, Hitoshi MIKADA

1015 JWS04/04A/A11-008
HEAT AND FLUID FLUXES AT A BIOLOGICAL COMMUNITY SITE ON THE NANKAI ACCRETIONARY PRISM OFF KII PENINSULA
Shusaku GOTO, Shin'ichi KURAMOTO, Juichiro ASHI, Makoto YAMANO

1030 BREAK

1045 JWS04/04A/A11-009
MODELLING OF THE SEASONAL FLUCTUATIONS OF SHALLOW GROUNDWATER TEMPERATURES TO CONSTRAIN DETAILED GROUNDWATER FLOW PATTERNS AROUND A FAULT ZONE
Victor Franciscus BENSE, Henk KOOI

1100 JWS04/04A/A11-010
A GEOTHERMAL METHOD FOR IDENTIFYING AND QUANTIFYING FLOW IN DEEP FORMATIONS
Christoph CLAUSER, Hilke DEETJEN, Andreas HARTMANN, Frank HOEHNE, Volker RATH, Wolfram RUEHAAK, Ruediger SCHELLSCHMIDT, Andrei ZSCHOCKE

1115 JWS04/04A/A11-011
WEICHSELIAN TEMPERATURES FROM GEOTHERMAL HEAT FLOW DATA
Ilmo T. KUKKONEN, Argo JÖELEHT

1130 JWS04/04A/A11-012
PROSPECT OF DOWNHOLE TEMPERATURE MEASUREMENTS BY FO TECHNOLOGY FOR CHARACTERIZATION OF METHANE HYDRATE BEARING GEOLOGICAL FORMATIONS
Osamu MATSUBAYASHI, Masafumi FUKUHARA

1145 JWS04/04A/A11-013
SOME REASONS OF UNCERTAINTIES IN EXPERIMENTAL GEOTHERMIC DATA
Yuri Anatolievich POPOV



G03 Friday, July 4 AM

DETERMINATION OF THE GRAVITY FIELD. MEETING OF IAG SECTION III
Location: Site C, Room 24

Convener: M. Sideris
Presiding Chairs: M.G. Sideris, M. Vermeer

0830 G03/04A/C24-001
REPORT OF IAG SECTION III: DETERMINATION OF THE GRAVITY FIELD, FOR THE PERIOD 1999-2003
Michael G. SIDERIS

0845 G03/04A/C24-002
REPORT ON WORK DONE BY THE INTERNATIONAL GRAVITY AND GEOID COMMISSION 1999-2003
Martin VERMEER, Jacques LIARD

0900 G03/04A/C24-003
REPORT OF IAG SPECIAL STUDY GROUP 3.167 REGIONAL LAND AND MARINE GEOID MODELING (1999-2003)
Ilias N. TZIAVOS

0915 G03/04A/C24-004
FINAL REPORT OF INTERNATIONAL ASSOCIATION OF GEODESY SPECIAL STUDY GROUP 3.177
Will FEATHERSTONE

0930 G03/04A/C24-005
REPORT OF SSG 3.184 USE OF REMOTE SENSING TECHNIQUES FOR VALIDATING HEIGHTS AND DEPTHS
Philippa Anne BERRY

0945 G03/04A/C24-006
SPECIAL STUDY GROUP 3.185 REPORT: MERGING DATA FROM DEDICATED SATELLITE MISSIONS WITH OTHER GRAVIMETRIC DATA
Nico SNEEUW

1000 G03/04A/C24-007
REPORT OF IAG SSG3.186: ALTIMETRY DATA PROCESSING FOR GRAVITY, GEOID AND SEA SURFACE TOPOGRAPHY DETERMINATION
Chenway HWANG

1015 BREAK

1035 G03/04A/C24-008
PRECISE GRAVITY OBSERVATION IN EAST ASIA USING SUPERCONDUCTING GRAVIMETERS AND ABSOLUTE GRAVIMETERS
Shuzo TAKEMOTO, Yoichi FUKUDA, Toshihiro HIGASHI, Houze XU, Yaozhong ZHU, Heping SUN, Yong WANG, Weimin ZHANG, Hiroyuki NAKAGAWA, Maiko ABE, Shihori OGASAWARA

1050 G03/04A/C24-009
APPLICATION OF GRAVIMETRY BY HELICOPTER TO IDENTIFY MARINE ACTIVE FAULTS AND IMPROVE ACCURACY OF GEOID AT COASTAL ZONES
Jiro SEGAWA, John Joseph E, Eiji NAKAYAMA, Vijay Kumar K, Shigekazu KUSUMOTO, Takeo ITO, Seiichi SEKIZAKI, Takemi ISHIHARA, Masao KOMAZAWA

1105 G03/04A/C24-010
DEVELOPMENT OF A NEW SMALL ABSOLUTE GRAVIMETER
James E. FALLER, Artyom VITOUCHKINE

1120 G03/04A/C24-011
FIELD TESTING A NEW PORTABLE ABSOLUTE GRAVITY GRADIOMETER
Derek VAN WESTRUM, John M. BROWN, Tim M. NIEBAUER

1135 G03/04A/C24-012
INTEGRATION OF MULTISENSOR GRAVITY ANOMALIES
M. Joana FERNANDES, L. BASTOS, F. LEITE

1150 G03/04A/C24-013
GRAVIMETRY RESULTS IN CHINA CONTINENT
Canfei XING, Hui LI, Shaoan SUN, Guangyu FU, Dongzhi LIU, Yongjun ZHANG, Aiming XIANG

1205 G03/04A/C24-014
GRAVITY CORRECTION WITH THREE DIMENSIONAL AIR PRESSURE DATA FOR SUPERCONDUCTING GRAVIMETER RECORDINGS
Juergen NEUMEYER

1220 G03/04A/C24-015
METROLOGY IN ABSOLUTE GRAVIMETRY
Leonid F. VITUSHKIN, Zhiheng JIANG

G05 Friday, July 4 AM

GEODYNAMICS. MEETING OF IAG SECTION V
Location: Site C, Room 25

Presiding Chairs: V. Dehant, C. Wilson

TECHNIQUES IN GEODYNAMICS

0830 G05/04A/C25-001
TIME SERIES COMBINATION OF STATION POSITIONS AND EARTH ORIENTATIONPARAMETERS
Zuheir ALTAMIMI, Claude BOUCHER

0845 G05/04A/C25-002
VELOCITY FIELDS FROM EPN IMPROVED TIME SERIES ANALYSIS AND CEGRN CAMPAIGNS: COMPARISON, COMBINATION, INTERPRETATION
Gyula GRENERCZY, Ambrus KENYERES

0900 G05/04A/C25-003
CERGOP-2/ENVIRONMENT - A GEODYNAMIC PROGRAM FOR MONITORING CENTRAL EUROPE
Peter PESEC

0915 G05/04A/C25-004
MONITORING LAND SUBSIDENCE OF JAKARTA (INDONESIA) USING GPS SURVEY AND INSAR TECHNIQUES
Hasanuddin Z. ABIDIN, Rochman DJAJA, H. ANDREAS, M. GAMAL, K. HIROSE, Y. MARUYAMA, D. MURDOHARDONO, H. RAJIYOWIRYONO, C. SUBARYA

0930 G05/04A/C25-005
THE AFRICAN CONTINUOUS GPS NETWORK: APPLICATION TO GEODYNAMICS
Rui M.S. FERNANDES, Ludwig COMBRINCK, Boudewijn A.C. AMBROSIUS, Ron NOOMEN, Luísa BASTOS, Wim SPAKMAN, José M. MIRANDA

**WEEK
A
FRI
AM**

0945	G05/04A/C25-006
OCEAN TIDAL LOADING EFFECTS AROUND KOREAN PENINSULA Hyun C. LEE, Wooil M. MOON	
1000	G05/04A/C25-007
PRINCIPLE NOISE STUDIES IN GEODYNAMICS Thomas JAHR, Gerhard JENTZSCH, Corinna KRONER	
1015	G05/04A/C25-008
100M LASER STRAINMETERS INSTALLED IN A DEEP TUNNEL AT KAMIOKA, GIFU, JAPAN Shuzo TAKEMOTO, Akito ARAYA, Junpei AKAMATSU, Wataru MORII, Masatake OHASHI, Toshihiro HIGASHI, Yoichi FUKUDA, Hideo MOMOSE, Ichiro KAWASAKI, Isao NAITO, Hideo HANADA	
1030	BREAK
CRUSTAL DEFORMATION	
1045	G05/04A/C25-009
TECTONIC ACTIVITY AND DEFORMATION IN THE ASIA-PACIFIC AREA Yanxing LI, Zhi LI, Zongjin MA, Xinkang HU, Liangqian GUO, Zhongfu ZHANG	
1100	G05/04A/C25-010
TIEN SHAN, TARIM PLATE CRUSTAL DEFORMATION STATUS: DERIVED FROM GLOBAL POSITIONING SYSTEM Yamin DANG, Thomas A. HERRING, Bradford H. HAGER, Junyong CHEN, Zhihao JIANG	
1115	G05/04A/C25-011
STUDY OF MODERN MOVEMENTS TERRESTRIAL CRUST TIEN-SHAN BY RESULTS OF SPACE-GEODETIC RESEARCHES (GPS) Shukhrat Saifullaevich RADJABOV	
1130	G05/04A/C25-012
NUMERICAL MODELING OF CRUSTAL DISPLACEMENT AND STRAIN FIELD IN TIBETAN PLATEAU CONSTRAINED BY GPS DATA Xiong XIONG, Yong ZHENG, Pi-Ho PARK, Jiwen TENG	
1145	G05/04A/C25-013
PRESENT-DAY MOVEMENT AND TECTONIC STRAIN & STRESS RATE FIELDS OF ACTIVE CRUSTAL BLOCKS IN CHINA Caijun XU, Hua WANG	
1200	G05/04A/C25-014
DEFORMATION AND STRAIN OF THE SOUTH AMERICAN CRUST FROM FINITE ELEMENT AND COLLOCATION METHODS Hermann DREWES, Oliver HEIDBACH	
1215	G05/04A/C25-015
GPS MEASUREMENTS OF CRUSTAL DEFORMATION ACROSS THE KENYA RIFT, 1998-2002 Edward Hunja WAITHAKA, Minoru KASAHARA, Charles Muya KAMAMIA	



GAI.06	Friday, July 4 AM
PALEOMAGNETISM AND FABRICS: REGIONAL AND GLOBAL GEODYNAMICAL CHALLENGES	
Location: Site A, Room 10	

Convener: B. Henry Co-Convener: B. Maher Presiding Chairs: R.M. Garza, B. Henry	
0830	GAI.06/04A/A10-001
PRELIMINARY PALEOMAGNETIC RESULTS AND MAGNETIC FABRIC OF THE RIPHEAN ROCKS FROM THE SOUTH URALS Natalia V. LUBNINA	
0845	GAI.06/04A/A10-002
A NEOPROTEROZOIC REVERSAL FROM INDIA: STRATIGRAPHIC SIGNIFICANCE; FORMATION OF GONDWANA Kaigala Venkata SUBBARAO, Mannava Raghavendra GOUTHAM, Raghunab K., C.V.R.K. PRASAD, V. Damodara REDDY	
0900	GAI.06/04A/A10-003
NEW PALEOMAGNETIC RESULTS OF THE LOWER ORDOVICIAN ROCKS FROM THE ST. PETERBURG AREA Natalia V. LUBNINA, Vasilii P. RODIONOV, Vladimir E. PAVLOV	
0915	GAI.06/04A/A10-004
A LATE ORDOVICIAN PALEOMAGNETIC POLE FOR THE CUYANIA (ARGENTINE PRECORDILLERA) TERRANE. IMPLICATIONS FOR ITS ACCRETION TO GONDWANA Augusto Ernesto RAPALINI, Carlos CINGOLANI	

0930	GAI.06/04A/A10-005
PARTIAL FOLDING AND ROTATIONS POINTED OUT BY SYNTECTONIC REMAGNETIZATION IN THE CEVENNES AREA (FRANCE) Bernard HENRY, Henri ROUVIER, Maxime LE GOFF	
0945	GAI.06/04A/A10-006
Invited PALAEOMAGNETISM AND CRUSTAL ROTATION IN THE CENTRAL ANDES: WHERE ARE WE NOW? Graeme K. TAYLOR	
1005	GAI.06/04A/A10-007
TIMING OF TECTONIC ROTATIONS AROUND CALAMA, PRECORDILLERA OF NORTHERN CHILE Ruben SOMOZA, Juan Francisco VILAS	

1020	BREAK
1045	GAI.06/04A/A10-008
RELATIVE MOTION BETWEEN EAST AND WEST ANTARCTICA PLATE AND GLOBAL PLATE CIRCUIT Yasushi HARADA, Paul WESSEL	
1100	GAI.06/04A/A10-009
PALEOMAGNETISM AND MAGNETIC FABRIC OF A MAFIC INTRUSIVE BODY AND SURROUNDING SEDIMENTARY ROCKS IN THE SHIMANTO BELT, SOUTHWEST JAPAN: STRUCTURAL EVOLUTION OF AN ACCRETIONARY PRISM RECORDED IN MAGNETIZATION OF FORE-ARC INTRUSIVE ROCKS Kazuto KODAMA, Takayuki KOYANO	
1115	GAI.06/04A/A10-010
PALEOMAGNETISM OF PALEOGENE LAVA FLOWS AND INTERBEDDED RED BEDS FROM TUOYUN BASIN, NORTHWEST CHINA: AN EVIDENCE FOR INCLINATION SHALLOWING IN CRETRAL ASIA Baochun HUANG, Yongcheng WANG	
1130	GAI.06/04A/A10-011
Invited PALEOMAGNETISM, FABRIC, AND GEOLOGY OF THE PENINSULAR RANGES BATHOLITH: PLUTON TILT RECONSIDERED Roberto Stanley MOLINA-GARZA, Harald N. BÖHNEL, Gabriel CHÁVEZ-CABELLO, Luis DELGADO-ARGOTE, Amabel ORTEGA-RIVERA, Ruben CONTRERAS-FLORES	
1150	GAI.06/04A/A10-012
ANISOTROPY OF MAGNETIC SUSCEPTIBILITY OF HEATED MAGMATIC ROCKS Bernard HENRY, Diana JORDANOVA, Neli JORDANOVA, Mohamed DERDER, Boualem BAYOU, Mohamed AMENNA, Aziouz OUABADI, Hamou DJELLIT	
1205	GAI.06/04A/A10-013
MAGNETIC FABRIC STUDIES ON THE CENOZOIC SEDIMENTS OF SILCHAR-HALFLONG ROAD, ASSAM-ARAKAN BASIN, INDIA Shiva Kumar PATIL, A.K. MULLICK, B.R. ARORA, D.S. MITRA	

GAI.03	Friday, July 4 AM
MEASUREMENT TECHNIQUES IN THE MIDDLE/UPPER ATMOSPHERE AND IONOSPHERE (IAGA, ICMA)	
Location: Site A, Room 13	

Presiding Chairs: Y. Liou, H. Seko	
0830	GAI.03/04A/A13-001
Invited TSUKUBA GPS DENSE NET CAMPAIGN OBSERVATION: STUDY OF SMALL-SCALE WATER VAPOR VARIATION BY USING DENSE GPS NETWORK Yoshinori SHOJI, Hajime NAKAMURA, Tetsuya IWABUCHI, Kazumasa AONASHI, Hiromu SEKO, Kenji MISHIMA, Akihiko ITAGAKI, Ryuichi ICHIKAWA, Ryu OHTANI	
0905	GAI.03/04A/A13-002
THE AMOUNT OF PRECIPITABLE WATER ESTIMATED FROM THE ZENITH DELAY, RADIOSONDES AND THE NUMERICAL MESOSCALE MODEL OVER THE KOREAN PENINSULA. Ha Taek KWON, Gyu Ho LIM	
0925	GAI.03/04A/A13-003
THE POSSIBILITY TO ESTIMATE THE VERTICAL PROFILES OF THE HORIZONTAL WIND SPEED PERTURBATIONS IN THE TROPOPAUSE AND STRATOSPHERE BY THE GPS/MET AND CHAMP OCCULTATION DATA Yuei-An LIOU, Alexander PAVEL'YEV, Jens WICKERT, Kiyoshi IGARASHI	
0945	GAI.03/04A/A13-004
VALIDATION OF GPS-ESTIMATED ATMOSPHERIC WATER VAPOUR ACROSS THE AUSTRALIAN REGION Nigel T. PENNA, Tomasz J. GLOWACKI, William P. BOURKE	
1005	BREAK
1025	GAI.03/04A/A13-005
Invited COST-716 NEAR REAL-TIME DEMONSTRATION PROJECT Hans VAN DER MAREL, COST-716 Team	

- 1100 GAII.03/04A/A13-006**
DIURNAL VARIATION IN ATMOSPHERIC PRECIPITABLE WATER FROM GPS DATA
Junhong WANG, Aiguo DAI, Randolph H. WARE, Teresa VAN HOVE
- 1120 GAII.03/04A/A13-007**
TROPOSPHERIC MODELING VIA GPS OBSERVATIONS
Manoochehr SHIRZAI, M. JAFARY
- 1140 GAII.03/04A/A13-008**
ASSESSING LONG TERM TRENDS IN THE ATMOSPHERIC WATER VAPOR CONTENT BY COMBINING DATA FROM VLBI, GPS, RADIOSONDES AND MICROWAVE RADIOMETRY.
Ruediger HAAS, Jan JOHANSSON, Lubomir GRADINARSKY, Gunnar ELGERED
- 1200 GAII.03/04A/A13-009**
IMPROVEMENT OF ANTARCTIC PRESSURE FIELD USING GPS OCCULTATION MISSION DATA
Shengjie GE, C.K. SHUM,

GAII.13 Friday, July 4 AM

REPORTER REVIEWS
Location: Site A, Room 2

- Convener: B. Anderson
Presiding Chair: B.J. Anderson
- 0830 GAII.13/04A/A02-001 Invited**
LARGE-SCALE FIELDS AND FLOWS
Victor A. SERGEEV
- 0915 GAII.13/04A/A02-002 Invited**
LARGE-SCALE PLASMA MORPHOLOGY
Masahiro HOSHINO
- 1000 GAII.13/04A/A02-003 Invited**
MAGNETOSPHERES OF OTHER PLANETS
Krishan K. KHURANA
- 1100 GAII.13/04A/A02-004 Invited**
A REPORTER REVIEW ON THE BOUNDARY LAYER STUDIES
Masaki FUJIMOTO
- 1145 GAII.13/04A/A02-005 Invited**
ULF WAVES REPORTER REVIEW
Ian R. MANN

GAIV.02 Friday, July 4 AM

COUPLING COMPLEXITY IN THE HELIOSPHERE
Location: Site A, Room 6

- Presiding Chairs: S. Cranmer, N. Pogorelov
- 0830 GAIV.02/04A/A06-001**
INTERACTION OF MAGNETIC CLOUDS IN THE SOLAR WIND
Eugene ROMASHEVS
- 0900 GAIV.02/04A/A06-002**
THE INTERACTION OF THE INTERSTELLAR MEDIUM WITH THE SUN: COUPLING COMPLEXITY IN ACTION
Gary P. ZANK
- 0940 GAIV.02/04A/A06-003**
NON-CLASSICAL DIFFUSION OF ENERGETIC PARTICLES IN TWO DIMENSIONAL MAGNETIC FIELD TURBULENCE
Fumiko OTSUKA, Tohru HADA

1010 BREAK

- 1030 GAIV.02/04A/A06-004**
HEATING OF THE EXTENDED SOLAR CORONA
Steven R. CRANMER
- 1110 GAIV.02/04A/A06-005**
SOLAR WIND ELECTRIC FIELD AND GALACTIC COSMIC RAY MODULATION OVER A RANGE OF TIME SCALES
Harjit S. AHLUWALIA
- 1140 GAIV.02/04A/A06-006**
SELF-ORGANIZED CRITICALITY AND INTERMITTENT TURBULENCE IN EARTH'S MAGNETOTAIL DYNAMICS
Alex J. KLIMAS, Vadim M. URITSKY, Dimitris VASSILIADIS, Daniel N. BAKER

GAV.03 Friday, July 4 AM

THE GEOSPACE ENVIRONMENT IN NEAR-REAL TIME: SCIENCE AND TECHNOLOGY (DIVISION V LEAD, JOINT WITH DIVISION III, INTERDIVISIONAL WG ON POLAR RESEARCH, AND CEOS)
Location: Site A, Room 7

- Presiding Chairs: R.J. Walker, S. Sobue
- 0830 GAV.03/04A/A07-001 Invited**
NEAR REAL TIME DATA TRANSFER AND THREE DIMENSIONAL VISUALIZATION SYSTEM FOR EARTH OBSERVATION SATELLITE DATA
Shinichi SOBUE
- 0850 GAV.03/04A/A07-002 Invited**
CEOS GRID PROTOTYPING PROJECT
Richard DESJARDINS, Kenneth MCDONALD, Yonsook ENLOE, Allan DOYLE
- 0910 GAV.03/04A/A07-003 Invited**
INTERNATIONAL HIGH-PERFORMANCE RESEARCH AND EDUCATION NETWORKS (HPRENS) IN SUPPORT OF EARTH SCIENCE
Jeffrey SMITH, Andrew GERMAIN, Richard DESJARDINS
- 0930 GAV.03/04A/A07-004 Invited**
A NEW NETWORKED ELECTROMAGNETIC DATA DISTRIBUTION SYSTEM
Takao KOYAMA, Seiji TSUBOI, Masahiro ICHIKI, Hisayoshi SHIMIZU, Hisashi UTADA, Toshiyuki NAKASHIMA, Takuya ARAI
- 0950 GAV.03/04A/A07-005 Invited**
INTRODUCTION TO SEES (SPACE ENVIRONMENTS & EFFECTS SYSTEM)
Ken-ichiroh UENO

1010 BREAK

- 1030 GAV.03/04A/A07-006**
GEOSPACE ENVIRONMENT SIMULATOR IMPLEMENTED ON THE EARTH SIMULATOR
Yoshiharu OMURA, Hideyuki USUI, Hiroshi MATSUMOTO, Masaki OKADA, Tatsuki OGINO, Iku SHINOHARA, Masao NAKAMURA, Masaki FUJIMOTO, Dongsheng CAI, Masahiro HOSHINO, GES Project Team
- 1050 GAV.03/04A/A07-007 Invited**
VGMO.NET - REALIZATION AND TESTING OF A VIRTUAL GLOBAL MAGNETIC OBSERVATORY
Vladimir PAPITASHVILI, Anshuman SAXENA, Valeriy PETROV, Robert CLAUER
- 1110 GAV.03/04A/A07-008 Invited**
WHAT CAN WE KNOW FROM NEAR-REAL TIME GEOMAGNETIC DATA?
Tohru ARAKI
- 1130 GAV.03/04A/A07-009 Invited**
MANAGING DISTRIBUTED AND DIVERSE SPACE PHYSICS DATA
Raymond John WALKER, Steven P. JOY, Todd A. KING
- 1150 GAV.03/04A/A07-010 Invited**
CANADIAN GEOSPACE MONITORING: A GRID COMPUTING AND WEB SERVICES PERSPECTIVE
Robert RANKIN, Ian MANN, Eric DONOVAN
- 1210 GAV.03/04A/A07-011 Invited**
RECENT ADVANCES IN AUTOMATIC ANALYSIS OF AURORAL IMAGES
Mikko SYRJASUO, Eric DONOVAN

GADC.02 Friday, July 4 AM

SPACE WEATHER EFFECTS AT EQUATORIAL AND LOW LATITUDE
Location: Site A, Room 8

- Convener: H. Chandra
Co-Conveners: T. Maruyama, T. Farges
Presiding Chairs: A. Bhattacharya, K. Oyama
- 0830 GADC.02/04A/A08-001**
STORMTIME REDISTRIBUTION OF THE IONOSPHERE NEAR THE SOUTH ATLANTIC ANOMALY
John C. FOSTER, Anthea J. COSTER, Frederick J. RICH
- 0850 GADC.02/04A/A08-002**
GROUND-BASED UPPER ATMOSPHERE OBSERVATIONS IN THE SOUTH ATLANTIC MAGNETIC ANOMALY
Kazuo MAKITA, Masanori NISHINO, Kiyofumi YUMOTO, NelsonJorge SCHUCH
- 0910 GADC.02/04A/A08-003**
SPACE WEATHER EFFECT IN SPACE COMMUNICATION FROM RADIO WAVE SCINTILLATION DUE TO EQUATORIAL SPREAD-F IRREGULARITIES
Chi-Kuang CHAO, S.-Y. SU, C.H. LIU, Sa. BASU

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0930 GADC.02/04A/A08-004
VHF SCINTILLATION IN THE INDIAN REGION: IMPORTANCE IN SPACE WEATHER STUDIES
Sridhar BANOLA, D.R.K. RAO, H. CHANDRA

0950 GADC.02/04A/A08-005
SPACE WEATHER EFFECTS ON THE DYNAMICS OF PLASMA IN THE LOW-LATITUDE IONOSPHERE
Bharati ENGA VALE, Sanchaita BOSE, Patricia DOHERTY, C. Divakar REDDY, Archana BHATTACHARYYA

1010 GADC.02/04A/A08-006
IMPACT OF LARGE MAGNETIC STORMS ON COMMUNICATION AND NAVIGATION SYSTEMS AT LOW AND EQUATORIAL LATITUDES
Sunanda BASU, Santimay BASU, C.E. VALLADARES

1030 BREAK

1050 GADC.02/04A/A08-007
INTERPLANETARY AND GEOMAGNETIC SIGNATURES OF THE THREE MAJOR SOLAR PROTON EVENTS OF SOLAR CYCLE 23
Sobhana ALEX, Rashmi RAWAT, Gurbax Singh LAKHINA

1110 GADC.02/04A/A08-008
EFFECT OF THE INTERPLANETARY MAGNETIC FIELD ON THE EQUATORIAL IONOSPHERE DYNAMICS DURING TWO MAGNETIC STORMS 1998 AND 1999.
Lilia Z. SIZOVA, Takashi MARUYAMA, Kenro NOZAKI

1130 GADC.02/04A/A08-009
STORM TIME BEHAVIOR OF TE/NE IN THE LOW LATITUDE TOPSIDE IONOSPHERE
Kohichiro OYAMA, Mangari ABDU, Shigeto WATANABE

1150 GADC.02/04A/A08-010
A NEW NETWORK FOR AERONOMIC OBSERVATIONS IN BRAZIL: RECENT SPACE WEATHER STUDY RESULTS
Paulo R. FAGUNDES, Yogeshwar SAHAI, Jose R. ABALDE, Fabio BECKER-GUEDES, Washington L.C. LIMA, Jose A. BITTENCOURT

1210 GADC.02/04A/A08-011
FIRST RESULTS FROM CRABEX (COHERENT RADIO BEACON EXPERIMENT) IN THE INDIAN GEOSTATIONARY SATELLITE (GSAT -2) FROM MAGNETIC DIP EQUATOR
Sudha RAVINDRAN, C.V. DEVASIA, R. SRIDHARAN, Smitha V. THAMPI, P. SREELATHA, C. Raghava REDDI



MC01 Friday, July 4 AM

INTER-CONTINENTAL TRANSPORT AND GLOBAL AND REGIONAL IMPACTS OF EMISSIONS OF ATMOSPHERIC TRACE GASES AND AEROSOLS FROM DIFFERENT CONTINENTS (ICACGP)
Location: Site C, Room 26

Presiding Chairs: K. Kawamura, J.C. McConnell

0900 MC01/04A/C26-001
A SATELLITE COMPARISON OF TROPOSPHERIC AEROSOL AND TRACE GAS DISTRIBUTIONS AND TRANSPORT
David Phillip EDWARDS, Xuexi TIE, Louisa EMMONS, Steven MASSIE, John GILLE, Yoram KAUFMAN, Allen CHU

0920 MC01/04A/C26-002
SEASONAL VARIATIONS OF SIZE SEGREGATED AEROSOLS IN THE ARCTIC: DISTRIBUTIONS OF DICARBOXYLIC ACIDS AND RELATED WATER-SOLUBLE ORGANIC COMPOUNDS
kimitaka KAWAMURA, Yoshie IMAI, Leonard A. BARRIE

0940 MC01/04A/C26-003
TRANSPORT AND BUDGETS OF SULFUR AND NITRATE OVER EAST ASIA FROM 1975 TO 2000
Zifa WANG, Hajame AKIMOTO, Itsushi UNO, Hiromasa UEDA

1000 MC01/04A/C26-004
INSOLUBLE MICROPARTICLES IN A MUZTAGATA ICE CORE, WEST CHINA
Guangjian WU, Tandong YAO

1020 BREAK

1040 MC01/04A/C26-005
CHARACTERIZATION OF AEROSOL, OZONE AND PRECIPITABLE WATER CONTENT OVER PUNE, AN INDIAN URBAN STATION
Madhupriya Rajita T., Devara China Sattilingam PANUGANTI

1100 MC01/04A/C26-006
CHEMICAL CHARACTERISTICS OF AEROSOLS IN THE MBL OF BAY OF BENGAL: IMPLICATIONS TO TRANSPORT OF POLLUTANTS
Manmohan SARIN, Sudheer K. ATHIYARATH, Neeraj RASTOGI

1120 MC01/04A/C26-007
LONG-RANGE TRANSPORT AND FATE OF SOME SEMIVOLATILE ORGANIC COMPOUNDS IN THE ENVIRONMENT AS PREDICTED BY A MULTICOMPARTMENT CHEMISTRY-TRANSPORT MODEL
Valiyaveetil Shamsudheen SEMEENA, Gerhard LAMMEL

1140 MC01/04A/C26-008
RISK ANALYSIS AND EVALUATION OF SOURCE-RECEPTOR RELATIONSHIP BASED ON ATMOSPHERIC TRANSPORT MODELLING
Alexander BAKLANOV, Alexander MAHURA, Jens Havskov SØRENSEN

MC05 Friday, July 4 AM

MIDDLE ATMOSPHERE SCIENCE (ICMA)
Location: Site B, Room 21

Convener: K. Hamilton
Co-Conveners: J.C. McConnell, K. Shibata
Presiding Chair: K. Hamilton

0830 MC05/04A/B21-001 Invited
MECHANISM OF DENITRIFICATION IN THE POLAR STRATOSPHERE
Yutaka KONDO, Hitoshi IRIE, Hideaki NAKAJIMA

0900 MC05/04A/B21-002 Invited
SURFACE CRYSTALLIZATION OF SUPERCOOLED DROPLETS IN CLOUDS
Azadeh TABAZADEH

0930 MC05/04A/B21-003
ATMOSPHERIC PRODUCTION OF NITROUS OXIDE FROM ELECTRONICALLY EXCITED OZONE AND ITS IMPLICATIONS
Sheo S. PRASAD

0950 MC05/04A/B21-004
AN INTRIGUING PHOTSENSITIZED HETEROGENEOUS SINK OF NITROUS OXIDESUGGESTS POTENTIAL LOSS OF NITROUS OXIDE ON ATMOSPHERIC AEROSOLS
Sheo S. PRASAD

1010 BREAK

1040 MC05/04A/B21-005 Invited
PHOTODISSOCIATION PROCESSES OF OZONE AND N₂O IN THE STRATOSPHERE AND MESOSPHERE
Yutaka MATSUMI

1110 MC05/04A/B21-006
IN SITU MEASUREMENTS OF DENITRIFICATION AND OZONE LOSS IN THE ARCTIC STRATOSPHERE DURING WINTER 2003
Hans SCHLAGER, Micheal VOLK, Christiane VOIGT, Anke ROIGER, Paul STOCK

1130 MC05/04A/B21-007
AN EFFECTIVE WAY TO CLASSIFY OBSERVED PSCS BASED ON COMPOSITION USING SATELLITE-BASED DATA
Naoko SAITOH, Sachiko HAYASHIDA

1150 MC05/04A/B21-008
SIMULTANEOUS IMPACT OF ANTHROPOGENIC OZONE-DEPLETING SPECIES AND GREENHOUSE GASES ON THE EARTH'S OZONE LAYER
Igor G. DYOMINOV, Alexander M. ZADOROZHNY

MC16 Friday, July 4 AM

UNDERSTANDING AND PREDICTING DECADEAL-MULTIDECADAL VARIATIONS (ICCI)
Location: Site C, Room 27

Presiding Chair: A. Robock

0830 MC16/04A/C27-001
INTERDECADEAL VARIABILITY IN SOUTHEASTERN SOUTH AMERICA: RELATIONSHIP WITH SEA SURFACE TEMPERATURE
Alice Marlene GRIMM, Carla Daniele CANESTRARO

0900 MC16/04A/C27-002
THE EVIDENCE FOR HYPOTHESIZED MECHANISMS OF DECADEAL-MULTIDECADAL CLIMATE VARIABILITY: A REVIEW
Vikram Madhuvadan MEHTA

0930 MC16/04A/C27-003
THE ROLE OF OCEAN-ATMOSPHERE COUPLING IN NORTH PACIFIC DECADEAL VARIABILITY
Dong Eun LEE, Zhengyu LIU, Lixin WU, Robert JACOB

1000 BREAK

1015 MC16/04A/C27-004
DECADEAL VARIATIONS OF COLD SEASON CLIMATE IN FINLAND
Esko Edvard KUUSISTO

1045 MC16/04A/C27-005
BASIN AND LOCAL-SCALE VARIABILITY MODES OF THE ATLANTIC THERMOHALINE CIRCULATION IN A GLOBAL AIR-SEA COUPLED MODEL
Tianjun ZHOU, Helge DRANGE

1115 MC16/04A/C27-006
OCEANIC INFLUENCE ON NORTH ATLANTIC CLIMATE VARIABILITY
Peili WU



P01 Friday, July 4 AM

WESTERN BOUNDARY CURRENTS
Location: Site B, Room 18

Presiding Chairs: H. Ichikawa, S. Imawaki

0830 P01/04A/B18-001 Invited
VARIATIONS OF THE KUROSHIO IN THE SOUTHERN REGION OF JAPAN
Masaki KAWABE

0900 P01/04A/B18-002
NORTHEASTWARD CURRENT SOUTHEAST OF NORTHERN RYUKYU ISLANDS ARC
Hiroshi ICHIKAWA, Hirohiko NAKAMURA, Ayako NISHIMA

0920 P01/04A/B18-003
THE KUROSHIO SYSTEM AROUND RYUKYU ISLANDS IN A PACIFIC OCEAN MODEL
Jong-Hwan YOON, Sung-Hyup YOU, Koki MARUYAMA

0940 P01/04A/B18-004
KUROSHIO VARIATIONS SOUTHWEST OF KYUSHU WITH 1-3 MONTH PERIOD AS SEEN BY SATELLITE ALTIMETRY
Kaoru ICHIKAWA, Yuichi SUMIKAWA, Hirohiko NAKAMURA, Ayako NISHINA, Hiroshi ICHIKAWA

1000 P01/04A/B18-005
VARIATION OF THE KUROSHIO PATH SOUTH OF JAPAN DETECTED FROM ALTIMETER AND DRIFTER DATA
Daisuke AMBE, Shiro IMAWAKI, Hiroshi UCHIDA

1020 BREAK

1040 P01/04A/B18-006
TIME SERIES OF BAROCLINIC TRANSPORT OF THE KUROSHIO SOUTH OF JAPAN ESTIMATED BY INVERTED ECHO SOUNDERS
Koji KAKINOKI, Hiroshi UCHIDA, Shiro IMAWAKI, Shin-ichiro UMATANI, Hiroshi ICHIKAWA, Mark WIMBUSH

1100 P01/04A/B18-007
PROBABILISTIC VIEW OF THE KUROSHIO BIMODALITY
Takuji WASEDA, Humio MITSUDERA, Bunmei TAGUCHI, Kunio KUTSUWADA

1120 P01/04A/B18-008
NUMERICAL SIMULATION OF THE TRANSIENT RESPONSE OF THE KUROSHIO LEADING TO THE LARGE MEANDER FORMATION SOUTH OF JAPAN
Takahiro ENDOH, Toshiyuki HIBIYA

1140 P01/04A/B18-009
PREDICTABILITY OF THE KUROSHIO FLUCTUATION ON THE IZU-OGASAWARA RIDGE BASED ON MERIDIONAL-TEMPORAL VARIATION OF SST AND SSH
Kosei KOMATSU, Kiyoshi KAWASAKI

1200 P01/04A/B18-010
PROPAGATION OF MESO-SCALE DISTURBANCES IN THE DERIVED SEA SURFACE HEIGHT FIELD AND CHANGE OF THE KUROSHIO PATH IN THE IZU ISLANDS REGION
Kunio RIKIISHI, Masahumi IMAI

P06 Friday, July 4 AM

THE SOUTHERN OCEAN (SCOR, SCAR)
Location: Site B, Room 19

Presiding Chairs: A.N. Garabato, I. Ansorge

0840 P06/04A/B19-001
THE UPPER AND LOWER LIMBS OF THE SOUTHERN OCEAN OVERTURNING CIRCULATION
Bernadette Marie SLOYAN

0920 P06/04A/B19-002
ROLES OF THE SOUTHERN OCEAN IN CONTROLLING THE GLOBAL ABYSSAL CIRCULATION
Ryo FURUE, Nobuo SUGINOHARA

0940 P06/04A/B19-003
FROM THE SOUTHERN OCEAN TO THE NORTH ATLANTIC IN THE EKMAN LAYER?
Doron NOF, Agatha M. DE BOER

1000 P06/04A/B19-004
THE IMPACT OF EDDIES ON THE CIRCULATION IN THE SOUTHERN OCEAN
Sybren S. DRUHFHOUT, Pedro DE VRIES, Kristofer DOOS, Andrew C. COWARD

1020 BREAK

1040 P06/04A/B19-005
MERIDIONAL CELLS IN THE SOUTHERN OCEAN
Jiuxin SHI, Jinping ZHAO, Kentang LE, Byung-Ho CHOI

1100 P06/04A/B19-006
MODELLING THE VARIABILITY OF THE COUPLED ICE-OCEAN SYSTEM IN THE SOUTHERN OCEAN
Ralph TIMMERMANN, Thierry FICHEFET, Hugues GOOSSE

1120 P06/04A/B19-007
EFFECT OF GLOBAL CLIMATE CHANGE ON WATERMASS FORMATION IN THE MERTZ GLACIER POLYNIA
Simon James MARSLAND, Nathaniel Lee BINDOFF, Guy D. WILLIAMS, William F. BUDD

1140 P06/04A/B19-008
DOWNSLOPE FLOW ACROSS THE ROSS SEA SHELF BREAK (ANTARCTICA)
Andrea BERGAMASCO, Valentina DEFENDI, Giorgio BUDILLON, Giancarlo SPEZIE

1200 P06/04A/B19-009
DOWNSLOPE CONVECTION TO THE NORTH OF ELEPHANT ISLAND, ANTARCTICA: INFLUENCE ON DEEP WATERS AND DEPENDENCE ON ENSO
Michael Paul MEREDITH, Chris W. HUGHES, Philip L. WOODWORTH, Peter R. FODEN



SS02-Posters Friday, July 4 AM

SEISMIC SOURCES: MODELING AND PREDICTION
Location: Site D

Presiding Chairs: S. Das, K. Satake

0830-159 SS02/04A/D-001 Poster
SOME CHARACTERISTICS OF THE RUPTURE PROCESS OF THE 1999 KOCAELY (TURKEY) EARTHQUAKE IMPLIED FROM DYNAMIC MODELING
Luis A. DALGUER, Irikura KOJIRO

0830-160 SS02/04A/D-002 Poster
DIRECTIVITY IN KINEMATIC AND COMPOSITE SOURCE MODELS
Frantisek GALLOVIC, Johana BROKESOVA, Jan BURJANEK, Jiri ZAHRADNIK

0830-161 SS02/04A/D-003 Poster
FINITE-EXTENT K^{a2} KINEMATIC SOURCE MODELLING: THE 1999 ATHENS EARTHQUAKE STRONG-MOTION ACCELEROGRAMS
Frantisek GALLOVIC, Johana BROKESOVA

0830-162 SS02/04A/D-004 Poster
FINITE-FAULT RADIATION MODELING, INTERPOLATION OF GREEN'S FUNCTION OVER THE FAULT SURFACE
Jan BURJANEK, Jiri ZAHRADNIK

0830-163 SS02/04A/D-005 Poster
SCALING PROPERTIES OF THE VRANCEA (ROMANIA) INTERMEDIATE-DEPTH EARTHQUAKES AS REVEALED BY ACCELERATION SPECTRA
Emilia POPESCU, Mihaela POPA, Mircea RADULIAN

0830-164 SS02/04A/D-006 Poster
DIRECTIVITY EFFECTS AND COMPLEXITY OF VRANCEA (ROMANIA) SEISMIC SOURCE REVEALED BY LOCAL DATA
Mircea RADULIAN, Olivia BAZACLIU, Mihaela POPA, Andrei BALA

0830-165 SS02/04A/D-007 Poster
PROBABLE SOURCE MODEL OF STRONG EARTHQUAKES IN ARMENIA
Sergey Norayr NAZARETYAN, Hakob Garnik SUVARYAN, Hayk Rudolf KARAPETYAN, L. TATEVOSYAN

0830-166 SS02/04A/D-008 Poster
ANALYSIS OF THE 1962 BUYIN-ZAHRA (QAZVIN) EARTHQUAKE IN NORTHWEST IRAN AND ITS POST-SEISMIC ACTIVITY
Mohammad Reza GHEITANCHI

0830-167 SS02/04A/D-009 Poster
DEEP-FOCUS FORESHOCKS OF LARGE EARTHQUAKES
Alexandra Ivanovna ZAKHAROVA, Eugeny Alexandrovich ROGOZIN

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0830-168 SS02/04A/D-010 Poster
CHARACTERISTICS OF RECENT EARTHQUAKE SEQUENCES IN THE PENINSULAR INDIA
S.N. BHATTACHARYA, R.S. DATTATRAYAM

0830-169 SS02/04A/D-011 Poster
SEISMIC MOMENT DISTRIBUTION OF LONG TERM FORESHOCKS OF GREAT EARTHQUAKES
Omar J. PÉREZ, Carlos RODRIGUEZ

0830-170 SS02/04A/D-012 Poster
VP AND VP/VS LOCAL EARTHQUAKE TOMOGRAPHY OF KOYNA-WARNA SEISMIC ZONE, INDIA: IMPLICATIONS TOWARDS THE PHYSICAL PROCESSES INVOLVED IN CAUSING THE CONTINUED TRIGGERED SEISMICITY.
Prantik MANDAL, Bal Krishna RASTOGI, H.V.S. SATYANARAYANA, C. SATYAMURTY, N. KUMAR, I.P. RAJU

0830-171 SS02/04A/D-013 Poster
TRIGGERING OF LARGE EARTHQUAKES IN THE 2000 NEW IRELAND, PAPUA NEW GUINEA SEQUENCE
Suncheon PARK, James MORI

0830-172 SS02/04A/D-014 Poster
TRIGGERING OF THRUST AFTERSHOCKS ON THE NEW BRITAIN TRENCH BY THE NOVEMBER 16, 2000 MW 8.0 NEW IRELAND STRIKE-SLIP EARTHQUAKE
Daniel J. RHAM, Shamita-DAS

0830-173 SS02/04A/D-015 Poster
RUPTURE PROCESS OF THE MS=8.1 QINGHAI, CHINA, EARTHQUAKE FROM TELESEISMIC WAVEFORM INVERSIO
Yi-Ying WEN, Kuo-Fong MA

0830-174 SS02/04A/D-016 Poster
STUDY ON PROBABILITY TO STRONG EARTHQUAKES PREDICTION BY CONTINUOUS GPS SITES
Fang tou TANG

0830-175 SS02/04A/D-017 Poster
CHANGES THE MODE OF DEFORMATION IN STRONG EARTHQUAKES REGION OF OCCURRENCE
Alexandre Ivanovich LUTIKOV

0830-176 SS02/04A/D-018 Poster
INVESTIGATION OF RUPTURE PROCESS OF THE 1999 MS=5.4 XIUYAN, LIAONING, EARTHQUAKE SEQUENCE
Xuezhong CHEN, Gai ZENGXI, Zhou SHIYONG, Zhu LING-EN

0830-177 SS02/04A/D-019 Poster
STUDY ABOUT THE PHENOMENON OF EARTHQUAKE BELTS BEFORE M8 EARTHQUAKES IN CHINA FROM 1900
Yongxian ZHANG

0830-178 SS02/04A/D-020 Poster
FOCAL MECHANISMS FOR EARTHQUAKES, DISPLACEMENT RATE AND ACTIVE MODEL OF THE SICHUAN-YUNNAN BLOCK
Wanzheng CHENG, Guiling DIAO, Tianchang CHEN

0830-179 SS02/04A/D-021 Poster
ESTIMATION OF SOURCE PROCESS OF THE 2001 HYOGO-KEN HOKUBU EARTHQUAKE AND CORRELATION BETWEEN THE SUCCESSIVE EVENTS AND THE CHANGES OF THE COULOMB FAILURE FUNCTION
Takeshi KIMURA, Yasumaro KAKEHI

0830-180 SS02/04A/D-022 Poster
STRESS DROP OF EARTHQUAKES IN AND AROUND TOKAI REGION
Yasuhiro YOSHIDA

0830-181 SS02/04A/D-023 Poster
DETAILED FAULT STRUCTURE OF THE 2000 WESTERN TOTTORI, JAPAN, EARTHQUAKE SEQUENCE
Eiichi FUKUYAMA, William L. ELLSWORTH, Felix WALDHAUSER, Atsuki KUBO

0830-182 SS02/04A/D-024 Poster
ENVELOPE INVERSION ANALYSIS FOR THE HIGH-FREQUENCY SEISMIC-WAVE-ENERGY RADIATION BY USING GREEN FUNCTIONS IN A DEPTH-DEPENDENT VELOCITY STRUCTURE - THE 2000 WESTERN TOTTORI, JAPAN, EARTHQUAKE -
Hisashi NAKAHARA

0830-183 SS02/04A/D-025 Poster
SPATIO-TEMPORAL VARIATION IN ENERGY INDEX DURING THE AFTERSHOCK PERIOD OF THE 2000 WESTERN TOTTORI EARTHQUAKE
Hironori KAWAKATA, Kinue OSADA

0830-184 SS02/04A/D-026 Poster
FAULT ZONE LIQUEFACTION DURING SLIPPING: A POSSIBLE MECHANISM OF RUPTURE PROPAGATION DURING THE 1999 CHICHI TAIWAN EARTHQUAKE
Kohtaro UJIIE, Aitaro KATO, Yoshiyuki KANEDA, Kyoji SASSA, Hiroshi FUKUOKA

0830-185 SS02/04A/D-027 Poster
FAULT ZONE STRUCTURE OF THE 2000 WESTERN TOTTORI EARTHQUAKE, JAPAN, REVEALED BY TRAPPED WAVE
Yasuto KUWAHARA, Yutaka MAMADA, kazutoshi IMANISHI, Hisao ITO

0830-186 SS02/04A/D-028 Poster
STRESS DROP, FOCAL MECHANISM AND SEISMIC VELOCITY DISTRIBUTIONS NEAR THE FAULT ZONE OF WESTERN NAGANO EARTHQUAKE
Shigeki HORIUCHI, Kaori TAKAI, Yoshihisa IIO, Shinobu ITO, Dapeng ZHAO

0830-187 SS02/04A/D-029 Poster
REPEATING EARTHQUAKES IN THE KANTO DISTRICT, JAPAN: CHARACTERISTICS OF SPATIO-TEMPORAL DISTRIBUTION
Toshihiro IGARASHI

0830-188 SS02/04A/D-030 Poster
SCALING LAW OF SMALL TO MODERATE-SIZED EARTHQUAKES ALONG THE PLATE BOUNDARY EAST OFF NORTHEASTERN JAPAN
Tetsuo YAMASHITA, Tomomi OKADA, Akira HASEGAWA

0830-189 SS02/04A/D-031 Poster
THE CONTROVERSY OVER THE SCALING OF REDUCED ENERGY OR APPARENT STRESS VERSUS SEISMIC MOMENT: CONSIDERING ITS FOCAL MECHANISM DEPENDENCE
Zhongliang WU

0830-190 SS02/04A/D-032 Poster
THE NON-PARAMETRIC TESTING PROCEDURE APPLIED TO INVESTIGATE THE COMPLEXITY OF EARTHQUAKE MAGNITUDE DISTRIBUTION
Stanislaw LASOCKI

0830-191 SS02/04A/D-033 Poster
SPATIAL VARIATION IN FRICTIONAL PROPERTY ON PLATE INTERFACE EAST-OFF NE JAPAN
Yasuo YABE

0830-192 SS02/04A/D-034 Poster
COSEISMIC AND POSTSEISMIC STRAIN CHANGE RECORDED WITH AN ISHII STRAIN METER BY CONTINUOUS 24BIT 25HZ MONITORING ON SEISMOGENIC FAULT OF M ~ 3 IN DEEP GOLD MINES.
Jun'ichi TAKEUCHI, Hiroshi OGASAWARA, Hiroshi ISHII, Shigeru NAKAO, Masataka ANDO, Gerrie VAN ASWEGEN, Alex MENDECKI, Artur CICHOWICZ, Peter MOUNTFORT, Satoshi IDE, The Reseach Group for SEESADGM*

0830-193 SS02/04A/D-035 Poster
EMPIRICAL RELATION OF EFFECTIVE STRESS ON SUBFAULT IN ASPERITY TO FAULT TYPE AND DEPTH INFERRED FROM EXISTING VARIABLE-SLIP RUPTURE MODEL FOR CRUSTAL EARTHQUAKE
Kazuo DAN, Motofumi WATANABE, Jun'ichi MIYAKOSHI

0830-194 SS02/04A/D-036 Poster
HIGHLY-SENSITIVE ENERGY-ACTIVE POINTS (HEP PHENOMENON) OF THE EARTH: FURTHER UNDERSTANDING THE PHYSICS OF EARTHQUAKES
Serguei BALASSANIAN

0830-195 SS02/04A/D-037 Poster
ORIGIN AND FLOW RATE OF LOW-CHLORIDE FLUIDS IN A COLD SEEP FIELD ON THE ACCRETIONARY WEDGE, OFF KUMANO, NANKAI TROUGH
Tomohiro TOKI, Urumu TSUNOGAI, Toshitaka GAMO, Shin'ichi KURAMOTO

0830-196 SS02/04A/D-038 Poster
RESULTS OF CORRECTION OF LOCAL SPEED MODEL OF THE EARTH'S CRUST IN THE SOURCE ZONE OF THE SPITAK EARTHQUAKE
Hakob Garnik SUVARYAN

0830-197 SS02/04A/D-039 Poster
SPACE-TIME ANALYSIS OF SEISMISITY OF THE TERRITORY OF CAUCASUS
Vigen Roland GASPARYAN

0830-198 SS02/04A/D-040 Poster
ELABORATION OF PHYSICOMATHEMATICAL MODELS OF THE SOURCES OF STRONG EARTHQUAKES OF CAUCASUS
Heghine Vladimir SARGSYAN

0830-199 SS02/04A/D-041 Poster
ABOUT THE RECOGNITION OF INDUSTRIAL EXPLOSIONS AND WEAK EARTHQUAKES AND THEIR INTERCOMMUNICATION WITH THE WEAK SEISMICITY
Heghine Vladimir SARGSYAN

0830-200 SS02/04A/D-042 Poster
ABOUT IDENTIFICATION INDUSTRIAL EXPLOSIONS BY THEIR RECORDS
Heghine Vladimir SARGSYAN

0830-201 SS02/04A/D-043 Poster
EARTHQUAKE SHOCK-WAVE MODEL
Vladimir V. KUZNETSOV

0830-202 SS02/04A/D-044 Poster
GALERKIN FORMULATION OF THE EIKONAL EQUATION
Behnam SEYED-MAHMOUD

0830-203 SS02/04A/D-045 Poster
COUPLED WAVE PROPAGATION IN A RANDOM CONDUCTING MAGNETO-THERMO-VISCOELASTIC MEDIUM
Rabindra Kumar BHATTACHARYYA, Gayatri CHATTOPADHYA

0830-204 SS02/04A/D-046 Poster
SEISMIC REGIME AS A SEQUENCE OF EVENTS OF FAILURE IN A MEDIUM WITH A STRENGTH DISTRIBUTION OBEYING THE CAUCHY LAW
Mikhail V. RODKIN

0830-205 SS02/04A/D-047 Poster
STATISTICAL EVALUATION OF THE PARAMETER OF REPETITION OF THE EARTHQUAKES AND ITS CHANGE IN SPACE AND TIME
Gohar Rafik ABGARYAN

0830-206 SS02/04A/D-048 Poster
TEMPORAL VARIATIONS OF STRAINED STATE OF THE EARTH'S CRUST AS A STRONG EARTHQUAKE
Aleksandr Khachatursky BACHRAMYAN

0830-207 SS02/04A/D-049 Poster
ON CONNECTION BETWEEN EARTHQUAKE ENERGY AND CRUST STRENGTH
Bela Alexandrovna ASSINOVSKAYA

0830-208 SS02/04A/D-050 Poster
CAN WAVEFORM INVERSION REVEAL FRICTION LAWS?
Changjiang WU, Minoru TAKEO

0830-209 SS02/04A/D-051 Poster
EFFECTS OF PRE-STRESS STATE AND RUPTURE VELOCITY ON DYNAMIC FAULT BRANCHING
Nobuki KAME, James R. RICE, Renata DMOWSKA

0830-210 SS02/04A/D-052 Poster
DYNAMIC RUPTURE PROCESSES ON ACTIVE FAULTS AROUND THE OSAKA BASIN, JAPAN
Yuko KASE, Tatsuya ISHIYAMA, Haruo HORIKAWA, Haruko SEKIGUCHI, Kenji SATAKE, Yuichi SUGIYAMA

0830-211 SS02/04A/D-053 Poster
A THREE-DIMENSIONAL SIMULATION OF CRUSTAL DEFORMATION ACCOMPANIED BY SUBDUCTION OF THE PHILIPPINE SEA PLATE IN THE TOKAI REGION, CENTRAL JAPAN
Hidekuni KUROKI, Hidemi M. ITO, Hiroyuki TAKAYAMA, Akio YOSHIDA

0830-212 SS02/04A/D-054 Poster
FAULT INTERACTIONS AS ORIGIN OF FAULT BENDING AND COMPLEXITY OF DYNAMIC RUPTURE PROCESS
Ryosuke ANDO, Teruo YAMASHITA

0830-213 SS02/04A/D-055 Poster
A GENERATION MECHANISM OF SLOW SLIP EVENTS IN THE SIMULATION BASED ON THE RATE- AND STATE-DEPENDENT FRICTION LAW
Noa MITSUI, Kazuro HIRAHARA

0830-214 SS02/04A/D-056 Poster
NUMERICAL SIMULATION STUDY ON RECENT CRUSTAL DEFORMATION IN THE TOKAI AREA, CENTRAL JAPAN
Keisuke ARIYOSHI, Naoyuki KATO, Yasuo YABE, Akira HASEGAWA

0830-215 SS02/04A/D-057 Poster
A NUMERICAL SIMULATION OF EARTHQUAKE CYCLES WITH HETEROGENEOUS FRICTIONAL PROPERTIES RELATED TO THE DEEP STRUCTURES ALONG THE NANKAI TROUGH, SOUTHWEST JAPAN
Takane HORI, Yoshiyuki KANEDA

0830-216 SS02/04A/D-058 Poster
FLUCTUATION OF RECURRENCE INTERVALS OF 'CHARACTERISTIC EARTHQUAKE' SEQUENCE OFF KAMAISHI, NE JAPAN - IS IT CAUSED BY SLIP RATE CHANGE IN THE SURROUNDING QUASI-STATICALLY SLIPPING AREA?
Naoki UCHIDA, Toru MATSUZAWA, Toshihiro IGARASHI, Akira HASEGAWA

0830-217 SS02/04A/D-059 Poster
NUMERICAL SIMULATION ON FAULTS ACTIVITIES INDUCED BY THE INJECTION OF CO₂ IN DEEP SALINE AQUIFERS
Qi LI, Zhishen WU, Xiaochun LI, Takashi OHSUMI, Hitoshi KOIDE

0830-218 SS02/04A/D-060 Poster
A TRIAL TO DETECT NUCLEATION PROCESSES BY TRANSMISSION WAVES ACROSS A FAULT THAT CONTAINS FAULT GOUGE
Naoto YOSHIOKA

0830-219 SS02/04A/D-061 Poster
EXPERIMENTAL EVIDENCE FOR A PULSE OF SEPARATION AND ITS EFFECTS
Koji UENISHI, Hans-Peter ROSSMANITH

0830-220 SS02/04A/D-062 Poster
PHYSICAL AND RHEOLOGICAL PROPERTIES OF MYLONITE, FAULT ROCKS, UNDER HIGH PRESSURE AND HIGH TEMPERATURE
Koji MASUDA, Takashi ARAI, Koichiro FUJIMOTO, Norio SHIGEMATSU

0830-221 SS02/04A/D-063 Poster
FAULTING IN AN ANISOTROPIC, SCHISTOSE ROCK UNDER GENERAL TRIAXIAL COMPRESSION CONDITIONS
Marek KWASNIEWSKI, Kiyoo MOGI

0830-222 SS02/04A/D-064 Poster
MODELING OF ELASTIC AND ELECTRICAL PROPERTIES OF DRY AND SATURATED POROUS ROCK
Marina PERVUKHINA, Yasuto KUWAHARA, Hisao ITO

0830-223 SS02/04A/D-065 Poster
POSSIBILITY OF CREEP INTERGRANULAR FRACTURE CAUSED BY GRAIN BOUNDARY SLIDING NEAR THE BASE OF THE SEISMOGENIC ZONE
Norio SHIGEMATSU, Koichiro FUJIMOTO, Tomoyuki OHTANI, David John PRIOR

0830-224 SS02/04A/D-066 Poster
DEVELOPING CHARACTERISTICS OF AE SPATIO-TEMPORAL DISTRIBUTION DURING THE DEFORMATION OF ROCK SAMPLE WITH REGULAR FAULT CONTAINING A COLUMNAR BARRIER
Haikun JIANG, Shengli MA, Liu ZHANG, Wenhai CHAO, Haifeng HOU

0830-225 SS02/04A/D-067 Poster
ROLE OF DEGASSING OF CO₂-SATURATED WATER ON THE FRACTURE OF BRITTLE ROCKS: EXPERIMENTAL STUDY BY MONITORING AE AND VELOCITY
Xinglin LEI, Osamu NISHIZAWA, Ziqiu XUE

0830-226 SS02/04A/D-068 Poster
FRICTIONAL BEHAVIOR OF FELDSPAR AND QUARTZ AT HIGH PRESSURE AND HIGH TEMPERATURE CONDITIONS
Takashi ARAI, Koji MASUDA, Koichiro FUJIMOTO, Norio SHIGEMATSU, Tomoyuki OHTANI, Tomoaki SUMII, Yasuko OKUYAMA

0830-227 SS02/04A/D-069 Poster
CASES FOR INTRINSIC AND APPARENT CUTOFF TIMES OF LOGARITHMIC HEALING OF FRICTION
Masao NAKATANI

0830-228 SS02/04A/D-070 Poster
VELOCITY DEPENDENCE OF FRICTIONAL STRENGTH ASSOCIATED WITH SOLUTION-TRANSFER HEALING MECHANISM OF QUARTZ GOUGE @200°C AND ITS UPPER CUTOFF VELOCITY AS LOW AS 1E-6M/S.
Masao NAKATANI, Chris H. SCHOLZ

0830-229 SS02/04A/D-071 Poster
POSSIBLE SEISMIC PRECURSORY ACTIVITIES TO CERTAIN CANADIAN EARTHQUAKES - SOME ANECDOTES
Shutian MA, John ADAMS

0830-230 SS02/04A/D-072 Poster
INVESTIGATION ON EARTH - CRUST - ATMOSPHERE - IONOSPHERE INTERACTION DURING PREPARATION ON EARTHQUAKES
Alvaro ANTONYAN, Hektor BABAYAN, Albert GOULYAN

0830-231 SS02/04A/D-073 Poster
MONITORING OF PARAMETERS OF SELF-SIMILARITY OF GEOPHYSICAL TIME SERIES IN EARTHQUAKE PREDICTION RESEARCH
Alexander Y. SIDORIN, Alexei V. DESHCHEREVSKY, Albert A. LUKK

0830-232 SS02/04A/D-074 Poster
SEISMOGEOLOGICAL MODEL OF CASPIAN AREA AND LONG-TERM EARTHQUAKE PREDICTION
Valentin I. ULOMOV

0830-233 SS02/04A/D-075 Poster
PRECURSORY SWARM IDENTIFICATION AND LONG-TERM EARTHQUAKE PREDICTION IN HIMALAYAS
Daya SHANKER

0830-234 SS02/04A/D-076 Poster
SEISMIC CLOUD MAP AND EARTHQUAKE PREDICTION
Jian WANG

0830-235 SS02/04A/D-077 Poster
PHYSICAL-CHEMICAL MECHANISM BASED INSIGHT INTO THE PROBLEM OF EARTHQUAKE ORIGIN
Aram Artavazd GRIGORIAN

WEEK
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SS03 Friday, July 4 AM

TECTONOPHYSICS AND CRUSTAL STRUCTURE
Location: Site A, Room 3

Program Group D. Comte, S.L. Beck, B.L.N. Kennett, O. Oncken
Presiding Chairs: D. Comte, J. Kasahara

0830 SS03/04A/A03-001
STRUCTURES OF SUBDUCTED PLATE CONTROLLING SEGMENTATIONS OF MEGA-THRUST EARTHQUAKES IN THE NANKAI SEISMOGENIC ZONE
Shuichi KODAIRA, Ayako NAKANISHI, Jin-Oh PARK, Aki ITO, Tetsuro TSURU, Yoshiyuki KANEDA

0845	SS03/04A/A03-002
PRESENT-DAY DEFORMATION ACROSS THE SOUTHWEST JAPAN ARC: OBLIQUE SUBDUCTION OF THE PHILIPPINE SEA PLATE AND LATERAL SLIP OF THE NANKAI FOREARC	
Takao TABELI, Manabu HASHIMOTO, Shin'ichi MIYAZAKI	
0900	SS03/04A/A03-003
TECTONIC ENVIRONMENT OF DAMAGING IN-SLAB EARTHQUAKES AT THE NANKAI AND CASCADIA SUBDUCTION ZONES	
Kelin WANG, Ikuko WADA	
0915	SS03/04A/A03-004
MICRO-EARTHQUAKE IN SUBDUCTION SEISMOGENIC ZONE AS INDICATOR OF PARTIALLY LOCKED TRANSITION ZONE; RESULTS OF EARTHQUAKE MONITORING IN THE WESTERN NANKAI TROUGH	
Koichiro OBANA, Shuichi KODAIRA, Kimihiro MOCHIZUKI, Masanao SHINOHARA, Yoshiyuki KANEDA, Kiyoshi SUYEHIO	
0930	SS03/04A/A03-005
DELAMINATION-WEDGE-SUBDUCTION SYSTEM AND A FORELAND FOLD-AND-THRUST BELT ASSOCIATED WITH THE COLLISION BETWEEN THE KURIL AND THE NORTHEAST JAPAN ARCS, HOKKAIDO JAPAN	
Tanio ITO, Takuro KAZUKA, Kazunori ARITA, Takeo MORIYA, Noriko TSUMURA, Takeshi IKAWA	
0945	SS03/04A/A03-006
A MILLENNIAL RECORD OF EARTHQUAKE CYCLES OF THE SUMATRAN SUBDUCTION ZONE FROM CORAL MICROATOLLS	
Danny Hilman NATAWIDJAJA, Kerry SIEH, Hai CHENG, Lawrence EDWARDS, Steven N. WARD, John GALETZKA, Bambang Widjamako SUWARGADI	
1000	BREAK
1030	SS03/04A/A03-007
WHERE AFTERSHOCKS OCCUR RELATIVE TO THE MAIN EARTHQUAKE SLIP	
Shamita DAS	
1045	SS03/04A/A03-008
HIGHLY RESOLVED SLIP DISTRIBUTION OF THE 1944 TONANKAI EARTHQUAKE INFERRED FROM TSUNAMI WAVEFORMS: IMPLICATIONS FOR SLIP ON SPLAY FAULTS	
Toshitaka BABA, Phil R. CUMMINS, Takane HORI, Yoshiyuki KANEDA	
1100	SS03/04A/A03-009
P-REFLECTION INTENSITY DISTRIBUTION OVER AN ASEISMIC REGION IN THE FOREARC SLOPE OF THE JAPAN TRENCH OBSERVED IN AN OBS-AIRGUN EXPERIMENT AND ITS GEOPHYSICAL MEANING	
Junzo KASAHARA, Mikako NAKAMURA, Kimihiro MOCHIZUKI, Ryota HINO, Tomoaki YAMADA, Yoshiyuki NAKAMURA, Toshinori SATO, Minoru NISHINO, Asako KUWSANO, Toshihiko KANAZAWA	
1115	SS03/04A/A03-010
DEEP SEISMIC STRUCTURE BENEATH THE SOUTHWESTERN JAPAN ARC, REVEALED BY SEISMIC REFRACTION/WIDE-ANGLE REFLECTION PROFILING	
Eiji KURASHIMO	
1130	SS03/04A/A03-011
SOURCE PARAMETERS OF THE GREAT 1934 NEPAL EARTHQUAKE INFERRED FROM HISTORIC AND MODERN GEODESY	
Frederick BLUME, Roger BILHAM	
1145	SS03/04A/A03-012
WHY IS NORTH CHINA SEISMICALLY ACTIVE WHILE SOUTH CHINA LARGELY ASEISMIC?	
Mian LIU	
1200	SS03/04A/A03-013
MS8.1 KUNLUN EARTHQUAKE ON NOVEMBER 14TH 2001 IN TIBETAN PLATEAU	
Jinwei REN, Ming WANG, Jianchun WU, Zhijun NIU	
1215	SS03/04A/A03-014
THE INDIAN-EURASIAN COLLISION PROCESS REVEALED BY THE CRUSTAL AND UPPER MANTLE STRUCTURE OF THE TIBETAN PLATEAU	
Qingju WU, Rongsheng ZENG, Zhifeng DING, Jianping WU	
<div> <div>V</div> <div>IAVCEI</div> </div>	
V05	Friday, July 4 AM
VOLCANIC FLOWS: OBSERVATION, EXPERIMENT, AND THEORY	
Location: Site A, Room 1	
Presiding Chairs: A. Neri, T. Miller, T. Koyaguchi	

0830	V05/04A/A01-001
HIGH-PRESSURE BUBBLE BURST SIMULATION BY USING EXTENDED TWO-FLUID MODEL	
Akihiko MINATO, Atsushi TORAMARU, Mie ICHIHARA, Eisuke FUJITA	
0845	V05/04A/A01-002
THE FLUIDIZATION BEHAVIOUR OF PYROCLASTIC FLOW MATERIALS AT HIGH TEMPERATURE	
T.H. DRUITT, G. BRUNI, P. LETTIERI, J. YATES	
0905	V05/04A/A01-003
TRANSIENT MULTIPHASE FLOW EFFECTS IN PYROCLASTIC DENSITY CURRENTS	
Augusto NERI, Tomaso ESPOSTI ONGARO, Sara BARSOTTI, Giovanni MACEDONIO	
0925	V05/04A/A01-004
OBSERVATIONS ON PYROCLASTIC FLOW DEVELOPMENT IN THE ALEUTIAN VOLCANIC ARC	
Thomas P. MILLER	
0945	V05/04A/A01-005
DIRECTED BLAST AND DEBRIS AVALANCHES ON 2002 PAPANDAYAN ERUPTION WEST JAVA-INDONESIA	
Mas Atje PURBAWINATA, Achmad D. WIRAKUSUMAH	
1000	V05/04A/A01-006
APPLICATION OF COMPUTER-ASSISTED MAPPING TO VOLCANIC HAZARD EVALUATION OF BLAST AND DEBRIS AVALANCHE OF THE 2002 PAPANDAYAN ERUPTION	
Mamay SURMAYADI, Achmad D. WIRAKUSUMAH, Frank LAVIGNE	
1015	V05/04A/A01-007
CONTRASTING DEPOSITIONAL FEATURES AND EMPLACEMENT MECHANISMS OF A MEDIUM- AND A LARGE-SCALE PYROCLASTIC-FLOW DEPOSIT, JAPAN	
Shinji TAKARADA, James R. RIEHLE	
1030	BREAK
1050	V05/04A/A01-008
VARIATING MODES OF SUBMARINE VOLCANISM WITHIN THE KOS-NISYROS VOLCANIC FIELD	
Paraskevi V. NOMIKOU	
1105	V05/04A/A01-009
EXPERIMENTAL STUDY OF THE SYSTEM FORSTERITE-AKERMANTITE-LEUCITE AT $P(H_2O) = P(TOTAL) = 23$ KBAR AND VARIABLE TEMPERATURES AND ITS SIGNIFICANCE IN THE GENESIS OF POTASSIUM-RICH MAFIC AND ULTRAMAFIC ROCKS	
Kaustav NAG, Makoto ARIMA, Alok K. GUPTA	
1120	V05/04A/A01-010
THE GLOBAL ARC VOLCANISM PROJECT: VOLCANIC VIGOR - TRENDS AND EXCEPTIONS TO THE TRENDS	
Stephen Homer KIRBY, Tom SIMKIN, Eric Robert ENGBAHL	

V08-Posters		Friday, July 4 AM
CALDERA FORMATION AND UNREST		
Location: Site D		
0830-248	V08/04A/D-001	Poster
RECONSTRUCTING CALDERAS-PIECES OF EVIDENCE IN CARPATHO-PANNONIAN REGION		
Alexandrina V. FULOP		
0830-249	V08/04A/D-002	Poster
BIRTH AND CHANGE OF THE 2000 MIYAKE-JIMA CALDERA, 2000-2003.		
Osamu OSHIMA		
0830-250	V08/04A/D-003	Poster
GRAVITY STUDY OF THE CALDERA STRUCTURE IN THE OLIGOCENE BRIASTOVO VOLCANO, EASTERN RHODOPES (BULGARIA)		
Yotzo Y. YANEV		
0830-251	V08/04A/D-004	Poster
GEOLOGICAL AND GEOPHYSICAL STRUCTURE OF THE SOUTH-HACHIOJ BANK		
Izumi SAKAMOTO, Mitsuo ISHIDA		
0830-252	V08/04A/D-005	Poster
RAPID POST-COLLAPSE INFILLING OF CALDERAS: EVIDENCE FROM THE TAUPO VOLCANIC ZONE, NEW ZEALAND		
Graham S. LEONARD, Colin J. N. WILSON, James W. COLE, Darren M. GRAVLEY		
0830-253	V08/04A/D-006	Poster
COLLAPSE MECHANISM OF A NESTED CALDERA		
Hiroaki KOMURO, Miki AOYAMA, Tahei ARAYASHIKI, Akiko OHMACHI		

0830-254 V08/04A/D-007 Poster
STRUCTURAL CONTROL OF CALDERA GEOMETRY AND EVOLUTION IN THE TRANSTENSIONAL TAUPO VOLCANIC ZONE, NEW ZEALAND
Karl D. SPINKS, Jim W. COLE, Kari N. BASSETT, Valerio ACOCELLA

0830-255 V08/04A/D-008 Poster
HISTORICAL RECORDS ON INTENSIVE EARTHQUAKE SWARMS IN HAKONE VOLCANO; OCCURRENCE AND ITS SIGNIFICANCE FOR THE TECTONICS
Kazutaka MANNEN

0830-256 V08/04A/D-009 Poster
THE 2000AD SUBSIDENCE CALDERA AND MAGMATIC EVOLUTION OF MIYAKEJIMA VOLCANO, 10KA TO 2000AD, IZU ISLANDS, JAPAN
Masashi TSUKUI, Kenji NIIHORI, Yoshihisa KAWANABE

0830-257 V08/04A/D-010 Poster
REGIONAL STRUCTURAL CONTROL OF THE CAMPI FLEGREI VOLCANIC DISTRICT
Valerio ACOCELLA, Renato FUNICIELLO, Gianni ZANCHETTA, Mauro DI VITO, Giovanni ORSI

0830-258 V08/04A/D-011 Poster
SIGNIFICANCE OF THE STRATIGRAPHIC POSITIONS OF IGNIMBRITE ERUPTIONS: CASE STUDY OF THE HIGH RESOLUTION TEPHRA RECORD USING SEDIMENT CORES FROM LAKE BIWA AND THE OSAKA PLAINS
Yoshitaka NAGAHASHI, Shusaku YOSHIKAWA, Takeyoshi YOSHIDA

0830-259 V08/04A/D-012 Poster
TRANSITION OF LARGE-SCALE EXPOSIVE ERUPTIONS BASED ON PLIOCENE TO PLEISTOCENE TEPHROSTRATIGRAPHY IN JAPAN
Yasufumi SATOGUCHI, Yoshitaka NAGAHASHI

0830-260 V08/04A/D-013 Poster
RECONSTRUCTION OF THE LATE CRETACEOUS ASH-FLOW CALDERA IN THE NOHI RHYOLITE, CENTRAL JAPAN
Takafumi SONEHARA

0830-261 V08/04A/D-014 Poster
SUBMARINE TOPOGRAPHY AND SURFICIAL GEOLOGY OF TORISHIMA SEAMOUNT CALDERA AND THE ADJACENT AREA, IZU-BONIN ARC: PRELIMINARY RESULTS OF THE KAIREI KR02-16 CRUISE
Jiro NAKA, Yoshihiko TAMURA, Hiroshi SHUKUNO, Ken-ichiro TANI, Naoko IRINO, Richard S. FISKE, KR 02-16 Shipboard Scientists

0830-262 V08/04A/D-015 Poster
GEOLOGY OF SUMISU VOLCANIC COMPLEX - PRELIMINARY RESULTS OF THE R/V NATSUSHIMA NT02-10 AND R/V KAIREI KR02-16 CRUISE.
Kenichiro TANI, Yoshihiko TAMURA, Jiro NAKA, Hiroshi SHUKUNO, Naoko IRINO, Richard S. FISKE, NT 02-10 Shipboard Scientists, KR 02-16 Shipboard Scientists

0830-263 V08/04A/D-016 Poster
BIMODAL MAGMATISM AT THE SUMISU CALDERA VOLCANIC COMPLEX, IZU-BONIN ARC: PRELIMINARY PETROLOGIC INTERPRETATIONS OF SAMPLES COLLECTED DURING R/V NATSUSHIMA CRUISE NT02-10
Hiroshi SHUKUNO, Yoshihiko TAMURA, Jiro NAKA, Kenichiro TANI, Naoko IRINO, Richard S. FISKE

0830-264 V08/04A/D-017 Poster
FORMATION OF THE AIRA PYROCLASTIC ERUPTION, AIRA CALDERA, JAPAN
Daisuke FUKUSHIMA

0830-265 V08/04A/D-018 Poster
MIYAKEJIMA 2000AD CALDERA AND SECTION OF BASALTIC STRATOVOLCANO EXPOSED IN THE CALDERA WALL
Yoshihisa KAWANABE

0830-266 V08/04A/D-019 Poster
A NUMERICAL SIMULATION FOR CALDERA FORMATION DUE TO COLLAPSE OF MAGMA CHAMBER
Shigekazu KUSUMOTO, Keiji TAKEMURA

0830-267 V08/04A/D-020 Poster
THE 10TH CENTURY ERUPTION OF BAITOUSHAN VOLCANO: TWO TIMES OF IGNIMBRITE ERUPTIONS OCCURRED FOR A SHORT PERIOD
Tsuyoshi MIYAMOTO, Mitsuhiro NAKAGAWA, Hiromitsu TANIGUCHI

0830-268 V08/04A/D-021 Poster
ERUPTIVE HISTORY OF KIKAI CALDERA DURING THE PAST 20,000 YEARS, SW JAPAN
Mitsuru OKUNO, Toshio NAKAMURA, Tetsuo KOBAYASHI

0830-269 V08/04A/D-022 Poster
STRATIGRAPHY AND ERUPTION DYNAMICS OF, AND VOLATILE RELEASE FROM, HIGHLY EXPLOSIVE VOLCANIC ERUPTIONS IN CENTRAL NICARAGUA DURING THE LAST 30 KA
Heidi WEHRMANN, Steffen KUTTEROLF, Armin FREUNDT, Hans-Ulrich SCHMINCKE

0830-270 V08/04A/D-023 Poster
CRUSTAL STRUCTURE BENEATH THE LARGE COLLAPSE CALDERAS IN THE NE HONSHU ARC, JAPAN
Takeyoshi YOSHIDA, Junichi NAKAJIMA, Akira HASEGAWA, Norihito UMINO, Hiroshi SATO, Yoshitaka NAGAHASHI, Kouji AIZAWA

0830-271 V08/04A/D-024 Poster
ARCUTE PYROCLASTIC CONDUIT AT NIBETSU CAULDRON, NE HONSHU, JAPAN
Ayumi IWAHASHI, Ayumi IWAHASHI, Takeyoshi YOSHIDA, Syun CHIYONOBU, Tokiyuki SATO, Kouji AIZAWA, Michihiko NAKAMURA, Ryuzo YOKOYAMA

0830-272 V08/04A/D-025 Poster
INTRACALDERA LAKE SHORELINES, DEFORMATION TRENDS, AND CALDERA UNREST IN THE TAUPO VOLCANIC ZONE, NEW ZEALAND
Vern MANVILLE, Colin JN WILSON

0830-273 V08/04A/D-026 Poster
CALDERA SUBSIDENCE IN AREAS OF VARIABLE TOPOGRAPHIC RELIEF: RESULTS FROM ANALOGUE MODELING
Yan LAVALLEE, Ben KENNEDY, Mathieu RICHER, Marc-Antoine LONGPRE, John STIX

0830-274 V08/04A/D-027 Poster
EFFECT OF VARYING STRESS ANISOTROPY ON DEVELOPMENT OF CALDERA BOUNDING FAULTS: GEOLOGICAL EVIDENCES FROM ASYMMETRIC KUMANO CALDERA, JAPAN
Daisuke MIURA

0830-275 V08/04A/D-028 Poster
GEOLOGY AND PETROLOGY OF PLIOCENE TERAGI CALDERA, SOUTHWEST JAPAN
Katsuhiko FURUYAMA

0830-276 V08/04A/D-029 Poster
DEVELOPMENT OF RING PYROCLASTIC DIKE, AND SUBSIDENCE PROCESS IN ISHIZUCHI CAULDRON, SOUTHWEST JAPAN
Akifumi NOZAWA

0830-277 V08/04A/D-030 Poster
POSSIBLE COMMON OCCURRENCE OF THE '2000 MIYAKEJIMA-TYPE' CALDERA IN ARC VOLCANISM
Osamu OSHIMA

0830-278 V08/04A/D-031 Poster
THE CONTROL FACTOR OF VARIETY IN CALDERA FORMING ERUPTION IN INNAI CCALDERA COMPLEX, NE HONSHU ARC -THE REFLECTION OF MAGMA CHAMBER AND VENT CONDITION -
Kouji AIZAWA, Takeyoshi YOSHIDA

0830-279 V08/04A/D-032 Poster
AN HYBRID MECHANISM MODEL FOR THE COLLAPSE OF THE CENTRAL AREA OF PITON DE LA FOURNAISE VOLCANO (REUNION ISLAND, INDIAN OCEAN)
Jean-Francois LENAT, Olivier MERLE

0830-280 V08/04A/D-033 Poster
PETROLOGY OF THE LATE CRETACEOUS VALLES-TYPE VOLCANIC CAULDRON IN THE MT. DAEUN-SAN, YANGSAN, SOUTHEASTERN KOREA
Sung-Hyo YUN, Jeong Seon KOH, Young Lar KIM, Hyun Suk KIM

0830-281 V08/04A/D-034 Poster
BIOTITE COMPOSITIONS AS A TRACER IN ERUPTION DYNAMICS AND A TOOL IN CORRELATION OF RHYOLITIC PYROCLASTIC DEPOSITS
Phil A. SHANE, Ian A. NAIRN, Victoria C. SMITH

0830-282 V08/04A/D-035 Poster
UNDERSTANDING VARIATIONS IN THE BEHAVIOR OF THE 1912 NOVARUPTA ERUPTION : TEXTURAL QUANTIFICATION OF THE DACITES
Nancy K. ADAMS, Bruce F. HOUGHTON, E. Wes HILDRETH

V09 Friday, July 4 AM

REASSESSING THE VOLCANIC PLUTONIC LINK

Location: Site A, Room 12

Convener: N. Petford
Co-Conveners: B. Bonin, D. Jerram
Presiding Chair: D. Jerram

0930 V09/04A/A12-001
VOLCANIC PLUTONIC GENETIC AND TEMPORAL RELATIONSHIP IN THE CONTINENTAL CRUST
Sobolev Roland NIKOLAEVICH

0950 V09/04A/A12-002
GENESIS OF CALCALKALINE INTERMEDIATE IGNEOUS ROCKS
Stephen Robert SPARKS, Catherine ANNEN, Jonathon BLUNDY

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1010	V09/04A/A12-003
TEXTURAL ANALYSIS OF CRYSTAL POPULATIONS: LOOKING TOWARDS THE THIRD DIMENSION	
Dougal A. JERRAM, Alex MOCK	
1030	BREAK
1050	V09/04A/A12-004
LACCOLITHS: LINKING BETWEEN PLUTONS AND VOLCANOES – NEW RESULTS FROM A PERMOCARBONIFEROUS COMPLEX IN GERMANY	
Alexander MOCK	
1110	V09/04A/A12-005
FLOATATION OF VESICULATING HYDROUS MAFIC MAGMA THROUGH A VERTICALLY FRACTIONATING FELSIC MAGMA CHAMBER: THE KUROBEGAWA GRANITIC PLUTON, CENTRAL JAPAN	
Hajime WADA, Yoshiaki YAMAGUCHI, Satoru HARAYAMA	
1130	V09/04A/A12-006
RED LUMINESCENCE FROM FELDSPAR	
Morteza FATTAHI	

V11 Friday, July 4 AM

INTEGRATED MONITORING OF ACTIVE VOLCANOES

Location: Site A, Room 5

Presiding Chairs: S.R. McNutt, H. Okada

0900	V11/04A/A05-001
DEGASSING ACTIVITY OF MIYAKEJIMA VOLCANO 1: GIGANTIC SULFUR DIOXIDE EMISSION	
Kohei KAZAHAYA, Hiroshi SHINOHARA, Masanobu ODAI, Yasuhiro NAKAHORI, Hirokazu MORI, Hideki IINO, Kozo UTO, Jun-ichi HIRABAYASHI	
0920	V11/04A/A05-002
QUICK COOLING OF KUJU VOLCANO, CENTRAL KYUSHU, JAPAN AFTER THE 1995 PHREATIC ERUPTION DEDUCED FROM MULTI-PARAMETER MEASUREMENTS	
Sachio EHARA, Yasuhiro FUJIMITSU, Jun NISHIJIMA, Koichiro FUKUOKA, Masayuki OZAWA	
0940	V11/04A/A05-003
FTIR SENSING OF MAGMATIC GAS COMPOSITION DURING LAVA FOUNTAINING PAROXYSMS ON ETNA VOLCANO	
Mike BURTON, Patrick ALLARD, Filippo MURE	
1000	V11/04A/A05-004
MONITORING OF THE ICE-COVERED KATLA VOLCANO, ICELAND	
Magnus T. GUDMUNDSSON, Pall EINARSSON, Sverrir O. ELEFSEN, Halldor GEIRSSON, Sigurdur R. GISLASON, Gunnar B. GUDMUNDSSON, Pall HALLDORSSON, Pedersen RIKKE, Freysteinn SIGMUNDSSON, Ragnar STEFANSSON, Erik STURKELL	
1020	BREAK
1040	V11/04A/A05-005
GEODETIC MONITORING OF RAPID INFLATION AT OKMOK CALDERA, ALEUTIAN ARC	
Jeffrey Todd FREYMUELLER, Ben PAUK, Yosuke MIYAGI, Dörte MANN, Fumiaki KIMATA, Thomas L. MURRAY	
1100	V11/04A/A05-006
DETECTION OF MAGMA SUPPLY TO SAKURAJIMA VOLCANO BY USING GPS IN SOUTH KYUSHU, JAPAN	
Masato IGUCHI, Estu KRISWATI	
1120	V11/04A/A05-007
HYDROTHERMAL VS. MAGMATIC PROCESSES ON VOLCANOES WITH CRATER LAKE: KEY PARAMETERS FOR MULTIDISCIPLINARY MONITORING	
Nico FOURNIER, Hazel RYMER, Glyn WILLIAMS-JONES, Jorge BRENES, Stephanie MARKIEWICZ	
1140	V11/04A/A05-008
TEMPORAL MICROGRAVITY CHANGE ASSOCIATED WITH MODERATE GEOTHERMAL ACTIVITY OBSERVED AT ADATARA VOLCANO, NORTHEASTERN JAPAN	
Sadato UEKI, Teruo YAMAWAKI, Yoshihito TAKEDA	

V13-Posters Friday, July 4 AM

ASSESSING VOLCANIC RISK

Location: Site D

Convener: G.A. Valentine
Co-Conveners: G. Heiken, Y. Ida

0830-283	V13/04A/D-001	Poster
AN UNSTABLE DAM OF PINATUBO CALDERA LAKE, PHILIPPINES: RISK ASSESSMENT AND ATTEMPT AT CONTROLLED BREACHING		
Christopher G. NEWHALL, Maria Antonia BORNAS, Ernesto CORPUZ, Steve SCHILLING, Norman TUNGOL		
0830-284	V13/04A/D-002	Poster
CALDERA-RIM BREACH AND LAHAR FROM MT. PINATUBO, PHILIPPINES: NATURAL BREACHING AND RESULTING LAHAR		
Ma. Antonia Vidamo BORNAS, Norman N. TUNGOL, Raymond PR MAXIMO, Ma Lynn PALADIO-MELOSANTOS, Hannah T. MIRABUENO, Dindo V. JAVIER, Ernesto G. CORPUZ, Edwin G. DELA CRUZ, Alejandro F. RAMOS, Joel D. MARILLA, Edgardo U. VILLACORTE		
0830-285	V13/04A/D-003	Poster
VOLCANIC HAZARD STUDIES AT THE PROPOSED NUCLEAR WASTE REPOSITORY AT YUCCA MOUNTAIN, NEVADA USA		
Eugene SMITH, Deborah KEENAN, Chih-Hsiang HO, Elizabeth FREEMAN		
0830-286	V13/04A/D-004	Poster
TIME SERIES ANALYSIS, FORECASTING AND PATTERNS OF VOLCANISM: APPLICATION TO THE VOLCANIC HAZARD AND RISK ASSESSMENT		
Chih-Hsiang HO, Elizabeth FREEMAN, Eugene SMITH, Deborah KEENAN		
0830-287	V13/04A/D-005	Poster
PATTERN CLASSIFICATION OF VOLCANISM: AN APPLICATION OF TIME SERIES MODELS TO THE VOLCANIC DATA NEAR THE PROPOSED NUCLEAR WASTE REPOSITORY AT YUCCA MOUNTAIN, NEVADA, USA		
Elizabeth FREEMAN, Chih-Hsiang HO, Eugene SMITH, Deborah KEENAN		
0830-288	V13/04A/D-006	Poster
RISK OF DIKE EXTENSION AFTER POTENTIAL INTRUSION INTO YUCCA MOUNTAIN		
Edward S. GAFFNEY, Grant HEIKEN, Branko DAMJANAC		
0830-289	V13/04A/D-007	Poster
COPAHUE - CAVIAHUE VOLCANIC COMPLEX PLANNING. YEAR 2000 ADVISORY ERUPTION.		
Elizabeth Ivonne ROVERE, Corina RISSO		
0830-290	V13/04A/D-008	Poster
VARIATIONS OF THE CHARACTERISTICS OF EARTHQUAKES RELATED TO PYROCLASTIC FLOWS AND ROCKFALLS DURING THE FEBRUARY 2002 EFFUSIVE ERUPTION AT VOLCÁN DE COLIMA, MÉXICO		
Victor J. SOLANO-ROMERO, Jose A. ANAYA-VENTURA, Vyacheslav M. ZOBIN		
0830-291	V13/04A/D-009	Poster
PRELIMINARY VOLCANIC HAZARD MAP OF VOLCÁN CEBORUCO, NAYARIT, MEXICO		
Ulrike MARTIN, Claus SIEBE		
0830-292	V13/04A/D-010	Poster
THE 2001-2003 ACTIVITY OF VOLCAN DE COLIMA, MEXICO		
Mauricio BRETON, Juan RAMIREZ		
0830-293	V13/04A/D-011	Poster
ASSESSING THE FUTURE ERUPTION AND RELATED HAZARDS AT THE CAMPI FLEGREI CALDERA		
G. ORSI, M.A. DI VITO, R. ISAIA		
0830-294	V13/04A/D-012	Poster
LOCATION AND DURATION-SIZE DISTRIBUTION OF DOME FAILURE EVENTS AT THE SOUFRIERE HILLS VOLCANO, MONTSERRAT, WEST INDIES		
Arthur D. JOLLY, Richard A. HERD, Gillian E. NORTON, Glenn THOMPSON, Venus A. BASS		
0830-295	V13/04A/D-013	Poster
SIMULATING PYROCLASTIC FLOWS BY CELLULAR AUTOMATA		
Rocco RONGO, Gino Mirocle CRISCI, Maria Vittoria AVOLIO, Salvatore DI GREGORIO, William SPATARO		
0830-296	V13/04A/D-014	Poster
ASSESSING VOLCANIC RISK ON THE LONG TERM: A DIFFERENT STORY?		
Alexandru SZAKACS		
0830-297	V13/04A/D-015	Poster
ASSESSMENT OF LOCALITY, MAGNITUDE, AND MODE OF VOLCANIC HAZARD IN FUTURE TO MAKE HAZARD MAPS OF FUJI VOLCANO, JAPAN		
Naomichi MIYAJI, Masato KOYAMA, Shigeo ARAMAKI, Tatsuro CHIBA, Takashi YOKOTA, Nobuo ANYOJI, Akihiko NUNOMURA, Yuji MORIYAMA		
0830-298	V13/04A/D-016	Poster
NUMERICAL SIMULATIONS BY EACH HAZARDOUS EVENT FOR THE HAZARD MAPS OF FUJI VOLCANO		
Nobuo ANYOJI, Hironao SHIMA, Katsuo SASAHARA, Takashi YOKOTA, Masaru CHIBA, Shintaro YAMASHITA, Masaaki TAKAHASHI		
0830-299	V13/04A/D-017	Poster
VARIATION OF THE ERUPTION SEQUENCE FOR BASALTIC STRATO-VOLCANO: IN THE CASE OF IWATE VOLCANO, JAPAN		
Jun'ichi ITOH		

1420 JSH02/04P/A16-002
INFILTRATION PROCESS AND GROUNDWATER RECHARGE RATE IN THE PYROCLASTIC FLOW DEPOSITS REVEALED BY ENVIRONMENTAL TRITIUM AND STABLE ISOTOPES
Masako TERAMOTO, Takashi YONESAKA, Jun SHIMADA

1440 JSH02/04P/A16-003
GROUNDWATER FLOW AT THE NORTHERN FOOT OF MT. FUJI- INTERACTION BETWEEN GROUNDWATER AND DAMMED LAKE LOCATED IN FOOT AREA-
Takeshi HAYASHI, Tetsuya TSUBOI

1500 JSH02/04P/A16-004
SUBMARINE GROUNDWATER DISCHARGE FROM A VOLCANIC ISLAND
Atsunao MARUI, Masaya YASUHARA, Takeshi HAYASHI

1520 JSH02/04P/A16-005 Invited
ESTIMATION OF MAGMATIC HEAT FLUX THROUGH THE ETNEAN VOLCANIC AQUIFER
Walter D'ALESSANDRO, Pietro BONFANTI, Lorenzo BRUSCA, Cinzia FEDERICO

1540 BREAK

1610 JSH02/04P/A16-006
USE OF STREAM-WATER ISOTOPES TO INTERPRET GROUNDWATER HYDROLOGY ON A VOLCANO:MT.HARUNA, CENTRAL JAPAN
Yoshinori SATO, Akihiko INAMURA, Taro NAKAMURA, Masahiko MAKINO, Masaya YASUHARA, Sayako KIMURA, Hidekazu SUZUKI, Yasuo SIMANO, Yuichi SUZUKI

1630 JSH02/04P/A16-007
THE BANDUNG BASIN GROUNDWATER FLOW SYSTEM AND ITS FUTURE ESTIMATING CONDITION
Robert M. DELINOM, Chang Yuan TANG, Yasuo SAKURA

1650 JSH02/04P/A16-008
UNDERLAVA WATERS OF VOLCANIC REGIONS OF ARMENIA
Vladimir R. BOYNAGRYAN

1710 JSH02/04P/A16-009
A METHOD OF PREDICTING THE AMOUNT OF SEDIMENT DISCHARGE FROM THE DEBRIS FLOWS RESPONDING TO VOLCANIC ACTIVITIES
Toshihiro HASHINOKI, Hiroshi IKEYA, Nobuo ANYOJI

JSH03-Posters Friday, July 4 PM

QUANTITATIVE APPROACHES TO HYPORHEIC FLOWS AND THEIR BIOGEOCHEMICAL CONSEQUENCES IN MARINE, ESTUARINE AND FRESHWATER SYSTEMS (IAHS, ICWQ)
Location: Site D

1800-001 JSH03/04P/D-001 Poster
RECYCLING PROCESE OF SEA WATER WITH TIDAL FLUCTUATION AT A BEACH SLOPE IN SETO INLAND SEA OF WESTERN JAPAN
Tsutomu TAKEI

1800-002 JSH03/04P/D-002 Poster
NITROGEN FLUX IN A STEEP COASTAL SMALL CATCHMENT COVERED BY ORANGE PLANTATIONS IN SETO INLAND SEA OF JAPAN
Mitsuyo SAITO, Shinichi ONODERA, Tsutomu TAKEI

1800-003 JSH03/04P/D-003 Poster
FRESHWATER-SALTWATER INTERACTIONS IN PERMEABLE SOIL
Evgeny Alexeevich KONTAR, Leopold Isaevich LOBKOVSKY, Igor Andreevich GARAGASH

1800-004 JSH03/04P/D-004 Poster
CHEMICAL TRANSPORT IN THE YELLOW RIVER DELTA, CHINA
Kunihide MIYAOKA, Makoto TANIGUCHI, Shin-ichi ONODERA, Tomochika TOKUNAGA, Guanqun LIU, Yoshihiro FUKUSHIMA

1800-005 JSH03/04P/D-005 Poster
QUANTITATIVE ESTIMATION OF NATURAL RECHARGE INTO CONFINED AQUIFER IN NORTHEASTERN OSAKA BASIN, JAPAN.APPLICATION OF MASS BALANCE METHOD BASED ON CATION EXCHANGE REACTION
Masaru YAMANAKA, Takanori NAKANO, Norio TASE

JWH02 Friday, July 4 PM

THE ROLE OF GEWEX HYDROMETEOROLOGICAL SCIENCE IN IMPROVED WATER RESOURCES MANAGEMENT (IAHS, IAMAS)
Location: Site A, Room 15

Presiding Chairs: L. Martz, T. Oki

1400 JWH02/04P/A15-001
IMPLEMENTING HYDROLOGICAL AND HYDRODYNAMIC MODELS FOR HYDROLOGICAL ASSESSMENT IN THE MACKENZIE BASIN AS PART OF THE MACKENZIE GEWEX PROGRAM
Alain Claude PIETRONIRO, Eric D. SOULIS, Nicholas KOUWEN

1430 JWH02/04P/A15-002
A HYDROLOGIC-ERROR MODEL FOR ENSEMBLE STREAMFLOW PREDICTION
Dong-Jun SEO, Hank HERR

1450 JWH02/04P/A15-003
VALIDATION OF A FULLY COUPLED ATMOSPHERIC AND HYDROLOGICAL MODELLING SYSTEM
Jesper OVERGAARD, Michael BUTTS, Dan ROSBJERG

1510 JWH02/04P/A15-004
TOWARDS A BETTER UNDERSTANDING OF RAINFALL-RUNOFF PROCESSES IN TROPICAL BASINS.
Javier TOMASELLA, Martin George HODNETT, Adriana QUARTAS, Antonio Donato NOBRE

1530 BREAK

1600 JWH02/04P/A15-005
A STUDY ON ESTIMATION OF SWEET CORN PRODUCTION USING CROP GROWTH SIMULATION MODEL AND INTEGRATION OF SATELLITE REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEM TECHNIQUES, IN NAKHON RATCHASIMA PROVINCE, THAILAND
Somchai-BAIMOUNG, Taikan OKI

1620 JWH02/04P/A15-006
THE SNOW COVER CHARACTERISTICS OF NORTHERN EURASIA: COMPARISON OF OBJECTIVE AND SUBJECTIVE INTERPOLATION AND STATISTICAL STRUCTURE OF THE LARGE-SCALE EXTENT
Lev M. KITAEV

JWH02-Posters Friday, July 4 PM

THE ROLE OF GEWEX HYDROMETEOROLOGICAL SCIENCE IN IMPROVED WATER RESOURCES MANAGEMENT (IAHS, IAMAS)
Location: Site D

1400-026 JWH02/04P/D-001 Poster
INTEGRATING SCIENCE AND POLICY FOR WATER MANAGEMENT: A CASE STUDY OF THE UPPER SAN PEDRO, A BINATIONAL HELP PILOT BASIN
Robert G. VARADY, Anne BROWNING-AIKEN, David GOODRICH, Holly RICHTER, Ana Lilia ROSS, W. James SHUTTLEWORT

1400-027 JWH02/04P/D-002 Poster
EVAPOTRANSPIRATION ON TERRESTRIAL EASTERN ASIA ESTIMATED BY SATELLITE REMOTE SENSING
Kenlo NISHIDA

JSM02 Friday, July 4 PM

THE SURFACE OCEAN-LOWER ATMOSPHERE STUDY (IAMAS [ICACGP, ICPM], IAPSO)
Location: Site B, Room 22

Presiding Chairs: R. Duce, O. Tsukamoto

1500 JSM02/04P/B22-001
LONG-TERM INCREASE OF OCEANIC CARBON IN THE SOUTHERN OCEAN
Hisayuki YOSHIKAWA-INOUE, Masao ISHII

1540 JSM02/04P/B22-002
CARBON DIOXIDE FLUX MEASUREMENTS IN MARINE ATMOSPHERIC BOUNDARY LAYERS
Wade R. MCGILLIS

1600 JSM02/04P/B22-003
CHARACTERISTICS OF PCO2 IN THE SURFACE WATER OF THE BERING BASIN AND THEIR EFFECTS TO THE CARBON CYCLING IN THE WESTERN ARCTIC OCEAN
Liqi CHEN, Zhongyong GAO, Weiqiang WANG, Xulin YANG

1620 JSM02/04P/B22-004
SEASONAL, SPATIAL AND DEPTH VARIABILITY OF BIOGENIC CARBONATE IN THE NORTHWESTERN PACIFIC: FUNCTION OF PRODUCTIVITY AND DISSOLUTION SUSCEPTIBILITY
Mia Mohammad MOHIUDDIN

1640 JSM02/04P/B22-005
CLIMATE FEEDBACK EFFECTS ON OCEAN CARBON SEQUESTRATION
Atul Kumar JAIN, Long CAO, Ken CALDEIRA

JSM02-Posters **Friday, July 4 PM**

THE SURFACE OCEAN-LOWER ATMOSPHERE STUDY (IAMAS [ICACGP, ICPM], IAPSO)

Location: Site D

1400-028 JSM02/04P/D-001 Poster
CHEMISTRY OF SEA-SALTS AND INORGANIC HALOGEN SPECIES IN THE POLLUTED MARINE BOUNDARY LAYER AROUND JAPAN
Keiichiro HARA, Masataka SHIOBARA, Kazuo OSADA, Masanori YABUKI, Hiroshi KOBAYASHI, Takashi YAMANOUCI, Masahiro NAGATANI

1400-029 JSM02/04P/D-002 Poster
EFFECT OF PARTICULATE CHLORIDE DEPLETION REACTION IN THE MARINE ENVIRONMENT
Yasushi NARITA, Kiyoshi MATSUMOTO, Yukiko UYAMA, Mitsuo UEMATSU

1400-030 JSM02/04P/D-003 Poster
SIGNIFICANT DIFFERENCE IN THE DISTRIBUTION OF HALOCARBONS IN AIR AND SEAWATER IN THE MIDDLE AREA OF THE EQUATORIAL PACIFIC FROM THAT IN THE WESTERN AREA.
Shinya HASHIMOTO, Motoko ISEDA, Kazuhiko MATSUMOTO, Yoko YOKOUCHI

1400-031 JSM02/04P/D-004 Poster
A BOX MODEL STUDY ON PHOTOCHEMICAL INTERACTIONS BETWEEN VOLATILE ORGANIC COMPOUNDS AND REACTIVE HALOGEN SPECIES IN THE MARINE BOUNDARY LAYER
Kenjiro TOYOTA, Yugo KANAYA, Masaaki TAKAHASHI, Hajime AKIMOTO

1400-032 JSM02/04P/D-005 Poster
MIXING STATES OF PARTICULATE ORGANICS IN THE REMOTE MARINE BOUNDARY LAYER
Keiichiro HARA, Kazuo OSADA, Chiharu NISHITA, Kazuhiko MIURA, Gen HASHIDA, Takashi YAMANOUCI, Masahiro NAGATANI, Hiroshi NAKATA

1400-033 JSM02/04P/D-006 Poster
LONG-TERM OBSERVATION OF ANTHROPOGENIC AEROSOLS OVER THE NORTHWESTERN RIM OF THE NORTH PACIFIC
Kiyoshi MATSUMOTO, Teruaki HAYANO, Mitsuo UEMATSU

1400-034 JSM02/04P/D-007 Poster
VERTICAL PROFILE OF AEROSOLS IN THE MARINE BOUNDARY LAYER MEASURED WITH KYTOON SYSTEM ON R/V MIRAI
Kazuhiko MIURA, Hiroshi KOJIMA, Mitsuo UEMATSU, Itsushi UNO, Nobuo SUGIMOTO

1400-035 JSM02/04P/D-008 Poster
MODIFICATION OF THE CHEMICAL COMPOSITION OF MINERAL AEROSOLS AND SEA SALTS IN THE MARINE BOUNDARY LAYER
Noriko NIIMURA, Kazuhiko MIURA, Mitsuo UEMATSU

1400-036 JSM02/04P/D-009 Poster
ATMOSPHERIC AMMONIA CONCENTRATION LEVELS AT REMOTE MARINE, POLAR AREAS, AND JAPANESE MOUNTAINS
Kazuo OSADA, Keiichiro HARA, Chiharu NISHITA, Mizuka KIDO, Katsuji MATSUNAGA, Yasunobu IWASAKA

1400-037 JSM02/04P/D-010 Poster
DYNAMICS OF DISSOLVED AND DISSOLVABLE TRACE METALS DURING THE SUBARCTIC PACIFIC IRON EXPERIMENT FOR ECOSYSTEM DYNAMICS STUDY (SEEDS 2001)
Masatoshi KINUGASA, Yoshiki SOHRIN, Tsunemi ISHITA, Shigenobu TAKEDA, Jun NISHIOKA, Atsushi TSUDA

1400-038 JSM02/04P/D-011 Poster
FORMATION OF TRANSPARENT EXOPOLYMER PARTICLES DURING IN-SITU IRON ENRICHMENT EXPERIMENT IN THE WESTERN SUBARCTIC PACIFIC (SEEDS)
Shigenobu TAKEDA, Neelam RAMAIAH, Ken FURUYA, Takeshi YOSHIMURA, Jun NISHIOKA, Hiroshi OGAWA, Tatsuo AONO, Yukihiko NOJIRI, Hiroaki SAITO, Atsushi TSUDA

1400-039 JSM02/04P/D-012 Poster
METEOR 55 - EXCHANGES BETWEEN THE SURFACE OCEAN AND THE LOWER ATMOSPHERE IN THE TROPICAL ATLANTIC: RESULTS FROM THE 1ST GERMAN SOLAS CRUISE.
Peter L. CROOT, D.W. WALLACE, M55 Participants

1400-040 JSM02/04P/D-013 Poster
DEVELOPMENT OF OFFSHORE MONITORING PLATFORM SOLARES FOR SOLAS
Naoyuki TAKATSU, Takashi KIMOTO, Mitsuo UEMATSU, Shuichi WATANABE, Koh HARADA, Shizuo TSUNOGAI

JSM05 **Friday, July 4 PM**

SOLAR EFFECTS IN THE MIDDLE ATMOSPHERE AND IONOSPHERE (IAMAS [ICMA/IRC], IAGA, SCOSTEP)

Location: Site C, Room 28

Presiding Chair: J. Austin

1400 JSM05/04P/C28-001
NEW N2O AND NO CHEMISTRY AND THE EFFECTS OF SOLAR UV VARIABILITY ON STRATOSPHERIC OZONE
Sheo S. PRASAD

1420 JSM05/04P/C28-002
EFFECTS OF 27-DAY SOLAR UV VARIABILITY ON OZONE AND TEMPERATURE IN THE TROPICAL LOWER STRATOSPHERE
Lon L. HOOD

1440 JSM05/04P/C28-003
LOWER STRATOSPHERIC SOLAR RESPONSE IN THE VERTICAL STRUCTURE OF OZONE AND TEMPERATURE OVER THE TROPICS
Neetu SARAF, Gufran BEIG

1500 JSM05/04P/C28-004
EFFECTS OF SOLAR PROTON EVENTS IN THE MIDDLE ATMOSPHERE DURING 23D CYCLE OF SOLAR ACTIVITY
Alexei A. KRIVOLUTSKY, Alexsander A. KUMINOV, Tatyana Yu. VYUSHKOVA

1520 JSM05/04P/C28-005
THE POLAR IONOSPHERE AT ZHONGSHAN STATION ON MAY 11, 1999, THE DAY THE SOLAR WIND ALMOST DISAPPEARED
Hongqiao HU, Ruiyuan LIU, Yonghua LIU, Huigen YANG, Natsuo SATO

1540 BREAK

1600 JSM05/04P/C28-006
CORONAL MASS EJECTIONS AS A GEOEFFECTIVE PHENOMENON OF A SPACE WEATHER AND AS A CAUSE OF IONOSPHERIC DISTURBANCE
Nikolai A. BARKHATOV, Alexey V. KROLEV, Alexandr V. RAKHLIN, Vladimir M. FRIDMAN, Olga A. SHEINER

1620 JSM05/04P/C28-007
ASYMMETRY OF GEOMAGNETIC STORM
Qi LI, Yufeng GAO

JSM05-Posters **Friday, July 4 PM**

SOLAR EFFECTS IN THE MIDDLE ATMOSPHERE AND IONOSPHERE (IAMAS [ICMA/IRC], IAGA, SCOSTEP)

Location: Site D

1400-041 JSM05/04P/D-001 Poster
ON THE EXISTENCE OF SOLAR VARIABILITY IN THE 16TH TO 18TH CENTURIES
Wilfried SCHRODER

JSM12 **Friday, July 4 PM**

THE TREATMENT OF PRECIPITATION IN CLOUD AND CLIMATE MODELS (IAMAS [ICCP, ICCL], IAHS)

Location: Site B, Room 23

Presiding Chair: U. Lohmann

1400 JSM12/04P/B23-001 Invited
SENSITIVITY OF PRECIPITATION PROCESSES TO MICROPHYSICS AND RESOLUTION IN A CLOUD-RESOLVING MODEL
Wei-Kuo TAO

1425 JSM12/04P/B23-002
A PRELIMINARY COMPARISON OF CRM SIMULATIONS OF TROPICAL CLOUD SYSTEMS AND SATELLITE OBSERVATIONS
Zachary A. EITZEN, Kuan-Man XU

1450 JSM12/04P/B23-003
COLLISION RATES OF CLOUD DROPLETS IN TURBULENT FLOW
Charmaine N. FRANKLIN, Paul A. VAILLANCOURT, M.K. YAU, Peter BARTELLO

1515 JSM12/04P/B23-004
EFFECTS OF TURBULENCE ON THE COAGULATION GROWTH OF CLOUD DROPLETS
Lian-Ping WANG, Orlando AYALA, Wojciech W. GRABOWSKI, Yan XUE

1540 BREAK

1600 JSM12/04P/B23-005
DEVELOPMENT OF A NON-HYDROSTATIC MODEL FOR CLIMATE STUDY AND RADIATIVE-CONVECTIVE EQUILIBRIUM CALCULATIONS
Masaki SATOH

**WEEK
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PM**

1625 JSM12/04P/B23-006
 APPLYING DATA ASSIMILATION IN AN ENSEMBLE-BASED CONVECTIVE
 PARAMETERIZATION
 Georg GRELL, Dezso DEVENYI, Stan BENJAMIN, Stephen WEYGANDT

1650 JSM12/04P/B23-007
 RAIN PATTERNS CLOUD ORGANIZATION A 3D MICROPHYSICAL CLOUD
 MODEL
 Tsutomu TAKAHASHI, Kazunori SHIMURA

1715 JSM12/04P/B23-008
 DAYTIME CONVECTIVE DEVELOPMENT OVER LAND
 Wojciech W. GRABOWSKI

JSM16 Friday, July 4 PM

**THE ROLE OF ATMOSPHERIC PROCESSES IN MASS
 BALANCE EXCHANGE IN THE POLAR REGIONS (IAMAS
 [ICPM, ICDM], IAHS)**
 Location: Site C, Room 31

Presiding Chair: K. Nishimura

1400 JSM16/04P/C31-001
 OBSERVATIONAL STUDY ON VERTICAL MOISTURE TRANSPORT BETWEEN
 THE ICE SHEET AND ATMOSPHERE AT THE DOME FUJI STATION,
 ANTARCTICA
 Naohiko HIRASAWA, Masahiko HAYASHI, Takashi YAMANOUCI

1430 JSM16/04P/C31-002
 THE SURFACE MASS BALANCE ON THE ANTARCTICPENINSULA IN A
 REGIONAL ATMOSPHERIC MODEL:SENSITIVITY TO HORIZONTAL
 RESOLUTION
 Nicole Petra Marie VAN LIPZIG

1500 JSM16/04P/C31-003
 GREENLAND ICE SHEET SURFACE MASS BALANCE IN THE POLAR MM5
 REGIONAL ATMOSPHERIC CIRCULATION MODEL
 Jason Eric BOX, David H. BROMWICH, Le-Sheng BAI

1530 BREAK

1600 JSM16/04P/C31-004
 MOISTURE SOURCE REGIONS AND TRANSPORT HISTORY FOR
 PRECIPITATION OVER GREENLAND
 Cornelia SCHWIERZ

1630 JSM16/04P/C31-005
 PRECIPITATION, BLOWING SNOW AND SURFACE SUBLIMATION COMPUTED
 BY DYNAMIC METHODS AND A COMPARISON BETWEEN THEM AND THE
 OBSERVED SURFACE ELEVATION CHANGES OVER GREENLAND.
 Qiu-shi CHEN, David H. BROMWICH, Le-sheng BAI

JSP02 Friday, July 4 PM

**NEW PERSPECTIVES OF COUPLED TROPICAL OCEAN-
 ATMOSPHERE DYNAMICS AND PREDICTABILITY (IAPSO,
 IAMAS, CLIVAR)**
 Location: Site B, Room 20

Presiding Chairs: G. Meyers, A. Kitoh

1400 JSP02/04P/B20-001
 TROPICAL INSTABILITY WAVES IN THE ATLANTIC OCEAN
 Paola Malanotte RIZZOLI

1420 JSP02/04P/B20-002
 INTERANNUAL VARIABILITY IN THE TROPICAL ATLANTIC FROM AN
 INTERMEDIATE COUPLED MODEL
 S       ILLIG, Boris DEWITTE

1435 JSP02/04P/B20-003
 ROLE OF AIR-SEA INTERACTION IN ANNUAL CYCLE OF THE COLD TONGUE-
 AFRICAN MONSOON COMPLEX
 Yuko OKUMURA, Shang-Ping XIE

1450 JSP02/04P/B20-004
 ANALOGOUS MERIDIONAL MODES OF ATMOSPHERE-OCEAN VARIABILITY
 IN THE TROPICAL PACIFIC AND TROPICAL ATLANTIC
 John C.H. CHIANG, Daniel J. VIMONT

1505 JSP02/04P/B20-005
 EFFECT OF CLIMATOLOGICAL ITCZ ON INTERHEMISPHERIC COHERENCE
 OF TROPICAL CLIMATE VARIABILITY
 Hideki OKAJIMA, Shang-Ping XIE, Atusi NUMAGUTI

1520 JSP02/04P/B20-006
 CLIMATE VARIABILITY AND PREDICTABILITY IN TROPICAL NORTH AFRICA
 Abebe YESHANEW

1535 BREAK

1555 JSP02/04P/B20-007
 THERMODYNAMIC OCEAN-ATMOSPHERE COUPLING AND THE
 PREDICTABILITY OF TROPICAL ATLANTIC VARIABILITY
 Ping CHANG

1615 JSP02/04P/B20-008
 A COUPLED MODELING STUDY OF TROPICAL ATLANTIC VARIABILITY
 Lixin WU

JSP03 Friday, July 4 PM

GROUNDWATER INPUTS TO THE OCEAN (IAPSO, IAHS)
 Location: Site C, Room 29

Presiding Chair: W. Burnett

1400 JSP03/04P/C29-001 Invited
 IN-SITU GAMMA-SPECTROMETRY STUDIES OF SUBMARINE
 GROUNDWATER DISCHARGE
 Pavel Peter POVINEC, Jean-Francoise COMANDUCCI, Isabelle LEVY-PALOMBO

1430 JSP03/04P/C29-002 Invited
 FACTORS INFLUENCING GROUND WATER DISCHARGE MEASUREMENTS
 USING SEEPAGE METERS
 Jaye Ellen CABLE, D.Reide CORBETT, Eugene A. SHINN, Christopher D. REICH,
 T. Donald HICKEY, Jonathan B. MARTIN

1500 JSP03/04P/C29-003
 SUBMARINE GROUNDWATER DISCHARGE INTO THE SURUGA BAY, JAPAN
 Makoto TANIGUCHI, Toshitaka GAMO, Jun SHIMADA, Tomochika TOKUNAGA,
 Yasunori MAHARA, Masataka KINOSHITA, Jing ZHANG

1520 BREAK

1600 JSP03/04P/C29-004
 GEOLOGICALLY CONTOROLLED DISTRIBUTION OF SUBMARINE
 FRESHWATER SPRINGS AT THE TOYAMA BAY, JAPAN
 Tomochika TOKUNAGA, Katsuro MOGI, Makoto INOUE, Masaru TOIDA, Minoru
 MASUDA, Kazumi ASAI, Yoshiharu MATSUI

1620 JSP03/04P/C29-005
 INFLUENCE OF TIDAL LOADING AND SALTWATER INTRUSION ON
 SUBMARINE GROUNDWATER DISCHARGE
 Ronald J. PAULSEN, Daniel O'ROURKE, Christopher F. SMITH, Teng-fong WONG

1640 JSP03/04P/C29-006
 SUBMARINE GROUNDWATER DISCHARGE AND GLOBAL CHANGE
 Evgeny Alexeevich KONTAR

1700 JSP03/04P/C29-007
 TIDAL FLUCTUATION OF THE COASTAL GROUNDWATER SEEPAGE
 REVEALED BY INTENSIVE ELECTRIC RESISTIVITY SURVEY
 Jun SHIMADA, Keisuke WATANABE, Makoto TANIGUCHI, Kunihide MIYAOKA,
 Shinichi ONODERA

1720 JSP03/04P/C29-008
 THE NATURE AND SIGNIFICANCE OF SUBMARINE GROUNDWATER
 DISCHARGE FROM A DUAL PERMEABILITY CHALK AQUIFER TO THE
 COASTAL ZONE OF NORTH NORFOLK, UK.
 Adrian R. GREEN, Kevin M. HISCOCK, Julian E. ANDREWS, Paul F. DENNIS

1740 JSP03/04P/C29-009
 UNDERGROUND DRAIN TO ARAL SEA AND WATER SUPPLY PROBLEMS OF
 ARAL SEA REGION
 Nasirdjan TAKHIROV, Shukhrat Sayfullaevich RADJABOV

JSP03-Posters Friday, July 4 PM

GROUNDWATER INPUTS TO THE OCEAN (IAPSO, IAHS)
 Location: Site D

Presiding Chair: M. Taniguchi

1400-006 JSP03/04P/D-001 Poster
 ESTIMATION OF THE IMPACT OF SUBMARINE GROUNDWATER DISCHARGE
 ON THE COASTAL WATERS PARAMETERS
 Evgeny Alexeevich KONTAR, Georgiy Isosifovich SHAPIRO, Leopold Isaevich
 LOBKOVSKY

1400-007 JSP03/04P/D-002 Poster
 GEOPHYSICAL SURVEY SPATIAL AND TEMPORALVARIATIONS OF THE
 SALTWATER INTERFACE,VADOSE ZONE FLOW ROCESSSES INTO THE
 COASTAL ZONE
 Yuri R. OZOROVICH, Evgeny A. KONTAR, Fedor V. BABKIN, Alex K.
 LUKOMSKI

1400-008 JSP03/04P/D-003 Poster
DETERMINATION OF NATURALLY OCCURRING RA ISOTOPES IN UBATUBA-SP, BRAZIL TO STUDY COASTAL DYNAMICS AND GROUNDWATER INPUT
Joselene de OLIVEIRA, Willard MOORE, Barbara Paci MAZZILLI, Washington Eugenio TEIXEIRA, Catia Heloisa SAUEIA, Elisabete Santis BRAGA, Valdenir Veronese FURTADO

1400-009 JSP03/04P/D-004 Poster
REGULATION OF NUTRIENT DYNAMICS IN COASTAL ARABIAN SEA - NATURAL AND ANTHROPOGENIC PROCESSES.
Joseph Sebastian PAIMPILLIL, Balakrishnan K

1400-010 JSP03/04P/D-005 Poster
SUBMARINE GROUNDWATER SEEPAGE AND ITS IMPACT TO THE MARINE ENVIRONMENT IN TOYAMA BAY, JAPAN
Jing ZHANG, Mai SUZUKI, Yuki KOYAMA, Hiroshi SATAKE, Hisashi NARITA, Yuzuru NAKAGUCHI, Tomochika TOKUNAGA, Asai KAZUMI

1400-011 JSP03/04P/D-006 Poster
A NUMERICAL ANALYSIS OF PUMPING SCHEME IMPACTS ON GROUNDWATER FLOW AND SALT TRANSPORT IN THE LAYERED COASTAL AQUIFER SYSTEM
Byeongju JUNG, Jun-Mo KIM, Byoungwoo YUM, Ho-Wan CHANG

1400-012 JSP03/04P/D-007 Poster
STUDY OF WATER EXCHANGE IN THE GROUNDWATER-SEAWATER SYSTEM OF THE ARAL SEA
Rustem BIGARINOV, Abdulkhakim SALOKHIDDINOV, Yerken AZHIGALIYE, Evgeny KONTAR, Nasir TAKHIROV

1400-013 JSP03/04P/D-008 Poster
DEVELOPMENT OF THE INFORMATION SYSTEM FOR INVESTIGATION OF INFLUENCE OF GROUNDWATER FACTOR ON THE ECOLOGICAL STABILITY OF THE ENVIRONMENT IN THE BASINS OF CENTRAL ASIA LAKES
Rustem BIGARINOV, Evgeny KONTAR, Abdulkhakim SALOKHIDDINOV

1400-014 JSP03/04P/D-009 Poster
ASSESSMENT OF GROUNDWATER-SEAWATER INTERACTIONS IN THE ARAL SEA BASIN AND POLLUTION CONTROL
Evgeny KONTAR, Evgeny KONTAR, Abdulkhakim SALOKHIDDINOV, Nasir TAKHIROV, Yerken AZHIGALIYE, Rustem BIGARINOV

1400-015 JSP03/04P/D-010 Poster
SEAWATER INTRUSION AND QUALITY OF APULIAN GROUNDWATER (SOUTHERN ITALY)
Maurizio POLEMIO

1400-016 JSP03/04P/D-011 Poster
HYDROGEOCHEMICAL CHARACTERISTICS OF SALTWATER INTRUSION OF SHALLOW GROUNDWATER IN A RECLAIMED COASTAL AREA, KOREA
Rak-Hyeon KIM, Eun-Sik KIM, Ji-Hoon KIM, Ho-Wan CHANG

1400-017 JSP03/04P/D-012 Poster
HYDROGEOLOGICAL INVESTIGATION AND DISCHARGE CONTROL OF NUTRIENT-RICH ACIDIC SOLUTION FROM COASTAL PHOSPHOGYPSUM STACK SITE, YEOCHEON, KOREA
Kang-Kun LEE, Yong-Chul KIM, Jin-Yong LEE, Myung-Jae LEE

1400-018 JSP03/04P/D-013 Poster
SUBMARINE GROUNDWATER DISCHARGE FROM PALEOCHANNELS: WONKY HOLES ON THE INNER SHELF OF THE GREAT BARRIER REEF, AUSTRALIA
Thomas C. STIEGLITZ, Peter V. RIDD

1400-019 JSP03/04P/D-014 Poster
THE RELATIONSHIP BETWEEN THE ZHOUSHAN FISHERY FIELD AND MARINE ENVIRONMENT VARIATION NEAR THE CHANGJIANG ESTUARY
Yongli CHEN, Fan WANG, Xuezhai BAI, Dongfang YANG

1400-020 JSP03/04P/D-015 Poster
EXAMINATION OF PHYSICAL AND CHEMICAL FACTORS - EFFECT ON PRIMARY PRODUCTION IN CHANGJING ESTUARY I. PHOSPHORUS IS NOT A LIMITING FACTOR OF PHYTOPLANKTON PRIMARY PRODUCTION IN CHANGJING ESTUARY
Dongfang YANG, Fan WANG, Yu CHEN, Yongli CHEN, Dunxin HU

1400-021 JSP03/04P/D-016 Poster
THE STUDIES OF LAND-OCEAN-ATMOSPHERE INTERACTIONS FROM THE JIAOZHOU BAY SILICON EXAMINATION
Dongfang YANG, Yu CHEN, Zhenhui GAO, Fan WANG, Yongli CHEN

1400-022 JSP03/04P/D-017 Poster
INTERACTION OF GROUNDWATER AND SEAWATER. WATER POLLUTION INVESTIGATION IN THE GULF OF FINLAND.
Ekaterina A. VIVENTSOVA

1400-023 JSP03/04P/D-018 Poster
CHEMICAL CHARACTERISTICS OF SUBMARINE SEEPAGE IN THE TOYAMA BAY, JAPAN, INFERRED FROM METHANE CONCENTRATION AND ITS CARBON ISOTOPE RATIO
Sohiko KAMEYAMA, Urumu TSUNOGAI, Toshitaka GAMO, Jang ZHANG, Mai SUZUKI

1400-024 JSP03/04P/D-019 Poster
DIRECT GROUNDWATER DISCHARGE IN THE BALTIC SEA
Arkady N. VORONOV, Ekaterina A. VIVENTSOVA

1400-025 JSP03/04P/D-020 Poster
NUMERICAL MODELING OF GROUNDWATER FLOW AND SALT TRANSPORT IN THE LAYERED COASTAL AQUIFER SYSTEM UNDER TIDAL FLUCTUATION OF SEA LEVEL
Byeongju JUNG, Jun-Mo KIM, Byoungwoo YUM, Ho-Wan CHANG

JSS04-Posters Friday, July 4 PM

THERMALLY CONTROLLED PROCESSES WITHIN THE EARTH (IASPEI, IAVCEI, IAGA, IAPSO, IAMAS, IAHS)
Location: Site D

1400-059 JSS04/04P/D-001 Poster
THERMAL REGIME IN THE CRUST BENEATH THE JAPANESE ISLANDS, AND ITS RELATIONSHIP TO FOCAL DEPTH
Akiko TANAKA

1400-060 JSS04/04P/D-002 Poster
PROCESS OF HYDROCARBON MATURATION IN THE TRANSYLVANIAN BASIN FROM THE PERSPECTIVE OF A COMPLEX THERMAL MODEL FOR THE BASIN EVOLUTION
Maria ANDREESCU, Crisan DEMETRESCU, Aurica DAMIAN, Aurelian NEGUT, Bogdan NICULESCU

1400-061 JSS04/04P/D-003 Poster
IMPLEMENTATION OF PERMAFROST DEVELOPMENT IN A FINITE DIFFERENCEHEAT TRANSPORT CODE
Darius MOTTAGHY, Volker RATH

1400-062 JSS04/04P/D-004 Poster
INVERSION FOR GROUND SURFACE TEMPERATURE HISTORIESWHEN PERMAFROST IS CONSIDERED
Volker RATH, Darius MOTTAGHY

1400-063 JSS04/04P/D-005 Poster
THERMAL CONDUCTIVITY FROM CORE AND WELL LOG DATA IN THE GERMAN MOLASSE BASIN
Andreas HARTMANN, Volker RATH, Cristoph CLAUSER

1400-064 JSS04/04P/D-006 Poster
NUMERICAL MODELLING OF SOME GOTHERMAL SOURCES
Simeon G. KOSTIANEV

1400-065 JSS04/04P/D-007 Poster
THE DEGASIFICATION MODEL OF PLANETARY EVOLUTION
Alexander I. MALYSHEV, Lidia K. MALYSHEVA

JSS05 Friday, July 4 PM

PHYSICS AND CHEMISTRY OF EARTH MATERIALS (IASPEI, IAVCEI, IAGA)
Location: Site A, Room 4

Presiding Chair: I. Jackson

DEFORMATION AND VISCOUS RHEOLOGY

1400 JSS05/04P/A04-001
HIGH PRESSURE X-RAY RADIOGRAPHY: A NEW TOOL FOR MINERAL PHYSICS
Masami KANZAKI

1420 JSS05/04P/A04-002
STRENGTH MEASUREMENT OF MANTLE MINERALS AND ITS IMPLICATIONS TO DEEP EARTHQUAKES
Jiuhua CHEN, Donald J. WEIDNER, Jun-ichi ANDO, Michael T. VAUHANG

1440 JSS05/04P/A04-003
DEFECT-RELATED PROPERTIES OF WADSLEYITE
Shun-ichiro KARATO, Toru SHIMMEI, Yousheng XU

1500 JSS05/04P/A04-004
DEFORMATION OF LOWER MANTLE MINERALS UNDER ULTRAHIGH PRESSURE
Sebastien MERKEL

1520 JSS05/04P/A04-005
TRANSVERSE SOLIDIFICATION TEXTURES IN HEXAGONAL CLOSE-PACKED ALLOYS,AND THE EARTH'S INNER CORE ANISOTROPY
Michael I. BERGMAN

**WEEK
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PM**

JWS04-Posters **Friday, July 4 PM**

SUBSURFACE THERMAL SIGNATURES OF TECTONICS, HYDROGEOLOGY AND PALEOCLIMATE (IASPEI, IAVCEI, IAGA, IAPSO, IAMAS, IAHS)
Location: Site D

Presiding Chair: V. Cermack

1400-066 JWS04/04P/D-001 Poster
CLIMATE CHANGE STUDIES IN INDIA: ANALYSIS OF GEOTHERMAL OBSERVATIONS AND NEED FOR GEOTHERMAL CLIMATE CHANGE OBSERVATORIES
Roy SUKANTA

1400-067 JWS04/04P/D-002 Poster
WELL WATER LEVEL CHANGES IN RESPONSE TO M>4.0 EARTHQUAKE EVENTS FROM KOYNA-WARNA REGION, INDIA
Rajender Kumar CHADHA, Ajeet Prakash PANDEY, Hans Joachim KUMPEL

1400-068 JWS04/04P/D-003 Poster
ANALYTICAL STOCHASTIC METHOD AND A JAVA PACKAGE FOR QUANTIFYING THE SUBSURFACE THERMAL STRUCTURE ALONG WITH ITS ERROR BOUNDS INCORPORATING RANDOMNESS IN THERMAL CONDUCTIVITY
Kirti SRIVASTAVA, R.N. SINGH, Rohit SHARMA, Bushra FATIMA

1400-069 JWS04/04P/D-004 Poster
GEOLOGICAL AND HYDROLOGICAL EFFECTS ON SUBSURFACE THERMAL STRUCTURE
Youhei UCHIDA, Takeshi HAYASHI, Akinobu MIYAKOSHI

1400-070 JWS04/04P/D-005 Poster
RECENT CLIMATE HISTORY STORED IN THE SUBSURFACE: EVIDENCE FROM REPEATED TEMPERATURE LOGS
Vladimir CERMAK, Louise BODRI, William D. GOSNOLD, Alan M. JESSOP

1400-071 JWS04/04P/D-006 Poster
COMPARISON OF THE RATE OF RECENT AIR TEMPERATURE WARMING WITH THE SUBSURFACE TEMPERATURE TREND OBSERVED IN A BOREHOLE IN SOUTHERN PORTUGAL
Antonio CORREIA, Jan SAFANDA

1400-072 JWS04/04P/D-007 Poster
REPEATED MEASUREMENTS OF BOREHOLE TEMPERATURE IN KUMAMOTO PLAIN: EFFECTS OF SUBSURFACE FLOW AND SURFACE TEMPERATURE CHANGES -
Takeshi UEMURA, Takeshi UEMURA, Makoto TANIGUCHI, Jun SHIMADA

1400-073 JWS04/04P/D-008 Poster
STUDY OF SUBSURFACE TEMPERATURE CONSIDERING EFFECTS OF GROUNDWATER FLOW AND SURFACE WARMING IN THE KANTO PLAIN
Akinobu MIYAKOSHI, Youhei UCHIDA, Yasuo SAKURA, Takeshi HAYASHI

1400-074 JWS04/04P/D-009 Poster
EVALUATION OF SUBSURFACE FLOW FOR RECONSTRUCTIONS OF CLIMATE CHANGE USING BOREHOLE TEMPERATURE AND ISOTOPE DATA IN KAMCHATKA
Akinobu MIYAKOSHI, Makoto TANIGUCHI, Takeshi UEMURA

1400-075 JWS04/04P/D-010 Poster
PLEISTOCENE/HOLOCENE TRANSITION INFERRED FROM DEEP BOREHOLE TEMPERATURE-DEPTH DATA IN EASTERN SIBERIA (RUSSIA)
Raissa Petrovna DOROFEEVA, Po Yu SHEN

1400-076 JWS04/04P/D-011 Poster
GEOTHERMAL AND EARTHQUAKE SIGNATURES OF ALBANIDES TECTONICS, AS PART OF ALPINE FOLDED BELT.
Alfred FRASHERI

1400-077 JWS04/04P/D-012 Poster
LONG-TERM MONITORING OF BOREHOLE AND SOIL TEMPERATURES IN KAMCHATKA
Makoto YAMANO, Hideki HAMAMOTO, Yasukuni OKUBO, Akinobu MIYAKOSHI, Evgenii GORDEEV

1400-078 JWS04/04P/D-013 Poster
REGIONAL THERMAL MODEL OF FOREARC AREA OF THE JAPANESE ISLANDS
Yasukuni OKUBO, Youhei UCHIDA

1400-079 JWS04/04P/D-014 Poster
HEAT FLOW MEASUREMENT IN SHALLOW SEAS THROUGH LONG-TERM TEMPERATURE MONITORING
Hideki HAMAMOTO, Makoto YAMANO, Osamu MATSUBAYASHI, Shusaku GOTO

1400-080 JWS04/04P/D-015 Poster
PAST ENVIRONMENTAL CHANGES IN SOUTHERN LAKE BIWA INFERRED FROM BOREHOLE TEMPERATURE DATA
Shusaku GOTO, Hideki HAMAMOTO, Makoto YAMANO, Keiichi TAKAHASHI

1400-081 JWS04/04P/D-016 Poster
DETAILED MAPPING OF SUBBOTTOM TEMPERATURE GRADIENT AND FLOW RATE OBSERVATION AT THE SEEPAGE SITE ON DEEP SEAFLOOR OFF HATSUSHIMA ISLAND IN SAGAMI BAY, CENTRAL JAPAN
Ryoichi IWASE, Hideaki MACHIYAMA, Wonn SOH, Kevin M. BROWN, Michael TRYON

1400-082 JWS04/04P/D-017 Poster
INFLUENCE OF THE VOLGA-KAMA PLUME ON STRUCTURE OF OIL-GAS DEPOSITS
Alexander GUSEV, Natasha PETROVA, Irina KITIASHVILI

1400-083 JWS04/04P/D-018 Poster
INFLUENCE OF THE VOLGA-KAMA PLUME ON STRUCTURE OF OIL-GAS DEPOSITS
Alexander GUSEV, Natasha PETROVA, Irina KITIASHVILI

1400-084 JWS04/04P/D-019 Poster
INDUCED SEISMIC ACTIVITY IN BRAZIL STUDIED THROUGH GEOTHERMAL AND GEOPHYSICAL SURVEYS
Tereza HIGASHI YAMABE, Jesus BERROCAL

1400-085 JWS04/04P/D-020 Poster
RESULTS OF STUDY CLIMATE OF THE CONNECTED CHANGES OF GROUND SURFACE TEMPERATURES
Svetlana Vladimirovna VIDYAKINA

1400-086 JWS04/04P/D-021 Poster
MULTIFRACTAL THERMAL SIGNATURES OF SUBSURFACE FLOW IN WETLANDS
I. TCHIGUIRINSKAIA, J. TABBAGH, R. GUERIN, H. BENDJOUDI

1400-087 JWS04/04P/D-022 Poster
PEAK HORIZONTAL ACCELERATION SIMULATION USING NEURAL NETWORK IN THE HALAYAN REGION
Vijay Pratap SINGH, Javed N. MALIK

1400-088 JWS04/04P/D-023 Poster
RECONSTRUCTION OF PALEOCLIMATE FROM BOREHOLE TEMPERATURES IN BULGARIA.
Velislav I. STOYANOV, S. KOSTYANOV, G. TRAPOV, G. BALTAKOV

1400-089 JWS04/04P/D-024 Poster
HYDROTHERMAL CIRCULATION INFERRED FROM SUBMERSIBLE HEAT FLOW MEASUREMENTS IN THE SUIYO SEAMOUNT, IZU-BONIN ARC
Masataka KINOSHITA, Masako GOMADO



G02 **Friday, July 4 PM**

ADVANCED SPACE TECHNOLOGY. MEETING OF IAG SECTION II
Location: Site C, Room 25

Convenor: C.K. Shum
Presiding Chairs: C.K. Shum, H. Drewes

SPACE GEODETIC SYSTEM AND SERVICES / GPS BUOY AND SATELLITE ALTIMETRY

1415 G02/04P/C25-001
GPS SEAMLESS ARCHIVES CENTERS (GSAC) INITIATIVE
Bob KING

1420 G02/04P/C25-002
REPORT OF COMMISSION VIII INTERNATIONAL COORDINATION OF SPACE TECHNIQUES FOR GEODESY AND GEODYNAMICS (CSTG)
Hermann DREWES

1440 G02/04P/C25-003
A DECADE OF SUCCESSFUL COOPERATION: WHAT'S NEXT FOR THE INTERNATIONAL GPS SERVICE?
Ruth E. NEILAN, Norm BECK, John DOW, Gerd GENDT, Angelyn MOORE, Jim RAY, Christoph REIGBER, Robert SERAFIN, Richard WONNACOTT

1500 G02/04P/C25-004
THE IGS GLONASS PILOT PROJECT (IGLOS) - A RESOURCE FOR DATA AND TESTING GNSS OPERATIONS
James A. SLATER, Robert WEBER, Elisabeth FRAGNER

1515 G02/04P/C25-005
NASA'S NEXT GENERATION OF SATELLITE LASER RANGING SYSTEMS (SLR2000)
Jan F. MCGARRY, Thomas W. ZAGWODZKI, John J. DEGNAN, Michael R. PEARLMAN

1530	G02/04P/C25-006
IVS PILOT PROJECT - TROPOSPHERIC PARAMETERS Harald SCHUH, G. ENGELHARDT, D. MACMILLAN, R. LANOTTE, P. TOMASI, I. VERESHCHAGINA, V. GUBANOV, R. HAAS	
1545	G02/04P/C25-007
THE PROPOSED INTERNATIONAL DORIS SERVICE Gilles TAVERNIER, Martine FEISSEL-VERNIER, Frank LEMOINE, Carey NOLL, John RIES, Laurent SOUDARIN, Pascal WILLIS	
1600	BREAK
1615	G02/04P/C25-008
GPS BUOYS: A WAY TO MONITOR SATELLITE ALTIMETRY Tilo SCHOENE	
1635	G02/04P/C25-009
RADAR ALTIMETER CALIBRATION USING A GPS-BUOY IN CORSICA Pascal BONNEFOND, David COULOT, Pierre EXERTIER, Olivier LAURAIN, Yves MÉNARD, Alain ORSONI, Eric JEANSOU, Gwenael JAN, Bruce HAINES	
1650	G02/04P/C25-010
COMBINATION OF SEA-LEVEL OBSERVATIONS AND AN OCEANOGRAPHIC MODEL FOR GEODETIC APPLICATIONS IN THE BALTIC SEA Kristin NOVOTNY, Gunter LIEBSCH, Reinhard DIETRICH, Andreas LEHMANN	
1705	G02/04P/C25-011
ESTIMATION OF OCEAN TIDAL LOADING CONSTITUENTS BY USING PERMANENT GPS STATIONS IN KOREA Hong-Sic YUN, Dong-Ha LEE	
1720	G02/04P/C25-012
GEOMETRY AND ACCURACY OF BISTATIC SATELLITE ALTIMETRY Jaroslav KLOKONIK, Jan KOSTELECKY	

G03	Friday, July 4 PM
DETERMINATION OF THE GRAVITY FIELD. MEETING OF IAG SECTION III	
Location: Site C, Room 24	
Presiding Chairs: N. Sneeuw, C. Hwang	
1400	G03/04P/C24-001
CALIBRATION AND VALIDATION STRATEGIES FOR THE GRAVITY FIELD MISSION GOCE Heiner DENKER, Focke JARECKI, Juergen MUELLER, KarenInsa WOLF	
1415	G03/04P/C24-002
SPACE-BORNE GRAVITY GRADIOMETER: IMPACT OF INSTRUMENT FILTER CHARACTERISTICS ON GLOBAL GRAVITY FIELD DETERMINATION Pieter N. VISSER	
1430	G03/04P/C24-003
TESTING GRIDGING AND FILTERING OF GOCE GRADIOMETER DATA BY LEAST-SQUARES COLLOCATION USING SIMULATED DATA. Carl Christian TSCHERNING	
1445	G03/04P/C24-004
PROCESSING OF CHAMP'S ACCELEROMETER AND RSO DATA IN THE EARTH GRAVITY FIELD DETERMINATION Jia LUO, Jinsheng NING, Xiaohua XU	
1500	G03/04P/C24-005
DETERMINATION OF THE GRAVITY FIELD FROM CHAMP MEASUREMENTS CONSIDERING THE ENERGY INTEGRAL Lóránt FÖLDVÁRY, Christian GERLACH, Drazen SVEHLA, Björn FROMMKNECHT, Thomas GRUBER, Thomas PETERS, Markus ROTHACHER, Reiner RUMMEL, Nico SNEEUW, Peter STEIGENBERGER, Martin WERMUTH	
1515	G03/04P/C24-006
SIMULTANEOUS USE OF GPS DATA FROM GROUND STATIONS AND LEOS FOR GRAVITY FIELD RECOVERY Shengyuan ZHU, Ch. REIGBER, F.-H. MASSMANN, H. NEUMAYER, J. RAIMONDO, Y. YU	
1530	G03/04P/C24-007
TOPOGRAPHIC-ISOSTATIC REDUCTIONS IN SATELLITE GRADIOMETRY BASED ON A GENERALIZED CONDENSATION MODEL Bernhard HECK, Franziska WILD	
1545	G03/04P/C24-008
GRAVITATIONAL POTENTIAL EXPANSIONS TO DEGREE 2160 Nikolaos K. PAVLIS, Simon A. HOLMES, Ronald G. TRIMMER, Steve C. KENYON	
1600	G03/04P/C24-009
DEVELOPMENT OF A REGIONAL GEOPOTENTIAL MODEL TO 3600 DEGREES THOROUGH A COMBINATION OF CHAMP AND SURFACE GRAVITY DATA Yang LU, Kefei ZHANG, Houtse HSU	
1615	BREAK

1635	G03/04P/C24-010
COMPARISON AND COMBINATION OF SATELLITE ALTIMETRY DERIVED GRAVITY ANOMALIES WITH SHIP OBSERVATIONS IN THE BLACK SEA Ali KILICOGLU, Mehmet Emin AYHAN, Coskun DEMIR, Sait YUKSEL, Ugur GONULALAN, Orhan FIRAT	
1650	G03/04P/C24-011
GLOBAL AND LOCAL DERIVATIONS OF MARINE GRAVITY ANOMALY FROM MULTI-SATELLITE ALTIMETRY Chenway HWANG, Hsin-Ying HSU	
1705	G03/04P/C24-012
SIGNIFICANT IMPROVEMENT IN GLOBAL MARINE GRAVITY BY RE- TRACKING ALTIMETER WAVEFORMS David T. SANDWELL, Walter H.F. SMITH	
1720	G03/04P/C24-013
IMPROVED DETERMINATION OF SEA SURFACE HEIGHTS CLOSE TO THE AUSTRALIAN COAST FROM ERS-2 SATELLITE RADAR ALTIMETRY X. DENG, W.E. FEATHERSTONE	
1735	G03/04P/C24-014
HIGH-RESOLUTION GRAVIMETRIC-SATELLITE ALTIMETRY GEOID COMPUTATIONS BASED ON ELLIPSOIDAL FIXED-FREE TWO-BOUNDARY VALUE PROBLEM Alireza A. ARDALAN, Abdolreza SAFARI, Erik W. GRAFAREND	
1750	G03/04P/C24-015
A NUMERICAL STUDY OF SOLVING THE ALTIMETRY-GRAVIMETRY BOUNDARY VALUE PROBLEMS IN COASTAL REGION Rossen S. GREBENITCHARSKY, Michael G. SIDERIS	

G05-Posters	Friday, July 4 PM
GEODYNAMICS. MEETING OF IAG SECTION V	
Location: Site D	
1400-090	G05/04P/D-001
GPS NETWORKS IN EGYPT Salah Mohamed MAHMOUD	
1400-091	G05/04P/D-002
IS THE THERMAL LEVELER ACTUALLY NECESSARY FOR THE SUPERCONDUCTING GRAVIMETER? Sachiko IWANO, Yoichi FUKUDA	
1400-092	G05/04P/D-003
ESTABLISHMENT OF THE THREE-DIMENSIONAL KINEMATIC REFERENCE FRAME BY VLBI AND DORIS GLOBAL DATA Mikhail D. GERASIMENKO, Jean-Francois GRETAUX	
1400-093	G05/04P/D-004
MODELLING THE KINEMATICS OF THE DEFORMATION OF THE SWISS GEODETIC REFERENCE NETWORK: PROJECT SWISS-4D Adrian A. WIGET, Alain GEIGER, Matthias KISTLER, Elmar BROCKMANN, Andreas SCHLATTER, Dieter SCHNEIDER	
1400-094	G05/04P/D-005
LONG TERM AND SEASONAL GRAVITY CHANGES AT THE STRASBOURG STATION (FRANCE) AND THEIR RELATION TO CRUSTAL DEFORMATION Martine AMALVICT, Jacques HINDERER, Séverine ROSAT, Yves REGISTER, Gilbert FERHAT	
1400-095	G05/04P/D-006
CONTRIBUTION OF RHINE WATER TABLE CHANGES TO THE SUPERCONDUCTING GRAVIMETER MEASUREMENTS IN STRASBOURG (FRANCE) Nicolas FLORSCH, Muriel LLUBES, Laurent LONGUEVERGNE, Jacques HINDERER	
1400-096	G05/04P/D-007
MIXED-MODE GPS DEFORMATION MONITORING – A COST-EFFECTIVE AND ACCURATE ALTERNATIVE? Volker JANSSEN, Chris RIZOS	
1400-097	G05/04P/D-008
RECENT EARTH'S CRUST MOVEMENTS ON THE TAVAKSAI TEST GROUND (KARZHANTAU, UZBEKISTAN) IN THE CONNECTION WITH SEISMICITY Agbar Rakhmatovich YARMUKHAMEDOV	
1400-098	G05/04P/D-009
INITIAL GPS OBSERVATION RESULTS ALONG THE SOUTHERN PART OF THE CENTRAL SIKHOTE-ALINSKY FAULT Nikolay V. SHESTAKOV, Mikhail D. GERASIMENKO, Minoru KASAHARA, Andrey G. KOLOMIETS, Grigory S. GERASIMOV, Teruyuki KATO	
1400-099	G05/04P/D-010
TWO EXAMPLES OF OPTIMAL DESIGN OF GEODYNAMIC GPS NETWORKS Nikolay V. SHESTAKOV, Mikhail D. GERASIMENKO, Hunja E. WAITHAKA, Minoru KASAHARA	

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1400-100 G05/04P/D-011 Poster
RECENT EARTH'S CRUST MOVEMENTS ON THE TAVAKSAI TEST GROUND(KARZHANTAU,UZBEKISTAN) IN THE CONNECTION WITH SEISMICITY
Ikhtiyar ERGESHOV, A.R. YARMYKHAMEDOV

1400-101 G05/04P/D-012 Poster
VLBI ACTIVITIES AT DGFI
Hansjoerg KUTTERER, Volker TESMER

1400-102 G05/04P/D-013 Poster
VERTICAL MOTIONS OF LASER OBSERVATORIES
Peter DUNN, Mark TORRENCE, Ronald KOLENKIEWICZ, David SMITH

1400-103 G05/04P/D-014 Poster
SUBSURFACE STRUCTURE UNDER THE UENO VOLCANO NEAR THE ATERA FAULT
Toshiyuki TANAKA, Harumi AOKI, Andrew James MARTIN, Kenichi OSHITA, Kyoza NOZAKI, Masazumi ONISHI

1400-104 G05/04P/D-015 Poster
FIRST MEASUREMENT OF THE KAZERUN FAULTGPS NETWORK (CENTRAL ZAGROS) 2002
Hamid Reza NANKALI, Andrea WALPERSDORF, Denis HATEZFELD, Faramarz NILFOROUSHAN, Farokh TAVAKOLI, Mohammad TATAR

1400-105 G05/04P/D-016 Poster
THE DETECTION OF GRAVITY EFFECTS BY DYNAMIC SYSTEMS OF MEASUREMENT
Lev Alexandrovich SAVROV

1400-106 G05/04P/D-017 Poster
DISTORTION OF GRAVITY FIELD AS A CONSEQUENCE OF TECTONIC DEFORMATION: AN EVIDENCE FROM NIGERIA.
Isaac Babatunde OSAZUWA

1400-107 G05/04P/D-018 Poster
LONG-TERM COOPERATION IN GEODESY AND GEODYNAMICS OF SEVENTEEN CEI COUNTRIES. EXPERIENCES AND RESULTS.
Janusz SLEDZINSKI

1400-108 G05/04P/D-019 Poster
THE EXTERNAL GRAVITY FIELD AS COMPUTED BY FORWARD GRAVITY MODELLING OF THE EARTH'S CRUST
Michael KUHN, William Edward FEATHERSTONE

1400-109 G05/04P/D-020 Poster
DYNAMIC GEODETIC DATUMS; A CASE STUDY IN PAPUA NEW GUINEA
Richard F. STANAWAY, Paul TREGONING

1400-110 G05/04P/D-021 Poster
POLAR MOTION AND NON TIDAL SIGNALS IN THE SUPERCONDUCTING GRAVIMETER OBSERVATIONS IN BRUSSELS
Bernard M.P. DUCARME, Michel VAN RUYMBEKE, Angel Petkov VENEDIKOV, Jose ARNOSO, Ricardo VIEIRA DAZ

1400-111 G05/04P/D-022 Poster
GEOTHERMAL RESERVOIR MONITORING WITH AN ABSOLUTE GRAVIMETER
Mituhiko SUGIHARA

1400-112 G05/04P/D-023 Poster
EFFECT OF ATMOSPHERIC PRESSURE ON THE 100M QUARTZ-TUBE EXTENSOMETERS AT MATSUSHIRO, JAPAN
Yuichi IMANISHI, Ichiro KAWASAKI, Sen'ichiro WAKUI, Kazuya KOKUBO, Hidee TATEHATA

1400-113 G05/04P/D-024 Poster
FUZZY INFERENCE SYSTEMS FOR THE PREDICTION OF EARTH ROTATION PARAMETERS
Orhan AKYILMAZ, Hansjoerg KUTTERER

1400-114 G05/04P/D-025 Poster
LONG-TERM CRUSTAL DEFORMATION AT MEDICINA - A COMBINED INTERPRETATION OF GRAVITY AND SPACE TECHNIQUES DATA SERIES
Bernd RICHTER, Susanna ZERBINI, Lugiano LAGO, Claudia ROMAGNOLI, Dieter SIMON

1400-115 G05/04P/D-026 Poster
COMPILATION OF VERTICAL MOTION RESULTS IN THE NORDIC COUNTRIES
Jaakko MAKINEN, Mikael LILJE, Karsten ENGSAGER, Per-Ola ERIKSSON, Per-Anders OLSSON, Veikko SAARANEN, Klaus SCHMIDT, Runar SVENSSON, Mikko TAKALO, Olav VESTÖL, Sören WEST-NIELSEN

1400-116 G05/04P/D-027 Poster
NEOTECTONICS OF TRINIDAD FROM GEODETIC DATA SPANNING THE 20TH CENTURY
Jarir SALEH, John C. WEBER

1400-117 G05/04P/D-028 Poster
MODELLING OF THE LUNAR CORE AND VARIATION OF THE FREE CORE NUTATION
Natasha PETROVA, Alexander GUSEV

1400-118 G05/04P/D-029 Poster
3D GRAVITY INVERSION USING A GENETIC ALGORITHM. APPLICATION TO CANARY ISLANDS.
Fuensanta G. MONTESINOS, Jose ARNOSO, Ricardo VIEIRA

1400-119 G05/04P/D-030 Poster
SITE SURVEYS AT THE FUNDAMENTAL GEODETIC STATION INNY-ALESUND, SVALBARD, NORWAY
Bjorn Geirr HARSSON, Lars BOCKMANN, Leif GRIMSTVEIT, Bjorn Geirr HARSSON, Halfdan PKIERULF, Oddgeir KRISTIANSEN, Hans-Peter PLAG

1400-120 G05/04P/D-031 Poster
3-D DEFORMATION ANALYSIS VIA INVARIANT GEODETIC OBSERVATIONS
Alireza A. ARDALAN

1400-121 G05/04P/D-032 Poster
SHALLOW WATER LOADING TIDES IN JAPAN
Shfaqat Abbas KHAN, Jacob L. HØYER

1400-122 G05/04P/D-033 Poster
CRUSTAL DEFORMATIONS AT PERMANENT GPS SITES IN DENMARK
Shfaqat Abbas KHAN, Per KNUDSEN, Carl Christian TSCHERNING

1400-123 G05/04P/D-034 Poster
DYNAMICS OF CONTINENTAL COLLISION PROCESS BASED ON GPS STUDIES IN INDIAN SUBCONTINENT
Sridevi JADE, Sithartha Muthu VIJAYAN, Vinod Kumar GAUR, Arumugam

1400-124 G05/04P/D-035 Poster
SITES VERTICAL VARIATION ESTIMATE BY VLBI BASELINE LENGTH CHANGE
Yong ZHENG, Yabo LUO

1400-125 G05/04P/D-036 Poster
A REVISED MODEL OF NUTATION AMPLITUDES DERIVED FROM GPS OBSERVATIONS
Robert WEBER, Markus ROTHACHER, Gerhard BEUTLER, Urs HUGENTOBLE

1400-126 G05/04P/D-037 Poster
NATIONAL RESEARCH INSTITUTE OF ASTRONOMY AND GEOPHYSICS - HELWAN- EGYPT
Abdel-Monem Sayed MOHAMED

G06-Posters

Friday, July 4 PM

INSIGHT INTO EARTH SYSTEM SCIENCE: VARIATIONS IN THE EARTH'S ROTATION AND ITS GRAVITY FIELD. MEETING OF SECTION III + V

Location: Site D

1400-127 G06/04P/D-001 Poster
ON THE NONLINEAR NATURE OF THE CHANDLER WOBBLE IN THE EARTH
Dmitry Mikhailovich SONECHKIN

1400-128 G06/04P/D-002 Poster
PLUMB LINE VARIATIONS - A POSSIBLE NEW SENSORS OF OUR PLANET
Zheng-Xin LI

1400-129 G06/04P/D-003 Poster
CONSISTENT MODEL FOR EARTH ROTATION AND GRAVITATION
Florian SEITZ, Detlef ANGERMANN, Horst MUELLER, Hansjoerg KUTTERER

1400-130 G06/04P/D-004 Poster
MODELING AND FORECAST OF THE POLAR MOTION EXCITATION FUNCTIONSFOR SHORT-TERM POLAR MOTION PREDICTION
Toshio M. CHIN, Richard S. GROSS, Jean O. DICKEY

1400-131 G06/04P/D-005 Poster
TEMPORAL VARIATIONS IN THE SECOND-DEGREE STOKES TESSERAL GEOPOTENTIAL COEFFICIENTS FROM TOPEX/POSEIDON ALTIMETRY
Zdislav SIMA, Milan BURSA, Steve KENYON, Jan KOUBA, Viliam VATRT, Marie VOJTISKOVA

1400-132 G06/04P/D-006 Poster
REVISION OF PHYSICAL BACKGROUNDS OF EARTH'S ROTATION
Lajos VOLGYESI

1400-133 G06/04P/D-007 Poster
DESIGNING BASIN FUNCTION TO EXTRACT SURFACE MASS LOAD IN LOCAL AREA FROM GRACE
Ki-Weon SEO, Clark R. WILSON, Jianli CHEN, James S. FAMIGLIETTI, Matt RODELL

1400-134 G06/04P/D-008 Poster
DAILY EARTH ORIENTATION PARAMETERS FROM SATELLITE LASER RANGING
Erricos C. PAVLIS

1400-135 G06/04P/D-009 Poster
IDENTIFICATION OF MASS VARIATIONS FROM A SERIES OF GLOBAL GRAVITY FIELD MODELS, A SIMULATION STUDY
Thomas GRUBER, Thomas PETERS

1400-136	G06/04P/D-010	Poster
LARGE-SCALE MASS REDISTRIBUTION IN THE OCEANS, 1993-2002 Jianli CHEN, Clark WILSON, Xiaogong HU, Byron TAPLEY		
1400-137	G06/04P/D-011	Poster
OCEANIC EFFECTS ON EARTH ROTATIONAL CHANGE FROM SATELLITE ALTIMETRY AND DATA ASSIMILATING OGCM Jianli CHEN, Clark WILSON, Xiaogong HU, Xinhao LIAO		
1400-138	G06/04P/D-012	Poster
THE DYNAMICS ASSOCIATED WITH EQUATORIAL ATMOSPHERIC ANGULAR MOMENTUM Steven B. FELDSTEIN		
1400-139	G06/04P/D-013	Poster
RINGLASER G FOR MONITORING EARTH ROTATION K.U. SCHREIBER, A. VELIKOSELTSEV, T. KLUEGEL, W. SCHLUETER, G. E.STEDMAN, R. HURST		
1400-140	G06/04P/D-014	Poster
EXHAUSTIVE TESTING OF RECENT OCEANIC AND EARTH TIDAL MODELSUSING COMBINATION OF TIDE GRAVITY DATA FROM GGP AND ICET DATA BANKS Alexander KOPAEV, Bernard DUCARME		
1400-141	G06/04P/D-015	Poster
THE INFLUENCE OF LOAD DEFORMATIONS ON EARTH ROTATION Robert DILL, Florian SEITZ		
1400-142	G06/04P/D-016	Poster
EARTH ROTATION AND GRAVITY FIELD VARIATIONS Geraldine BOURDA		
1400-143	G06/04P/D-017	Poster
GLOBAL MASS TRANSFER AND THE LONG TERM EVOLUTION OF ORBITAL PARAMETERS OF ARTIFICIAL SATELLITES. Florent DELEFLIE, Pierre EXERTIER, Gilles METRIS		
1400-144	G06/04P/D-018	Poster
GLOBAL LAND HYDROLOGY AND ITS GEODYNAMIC EFFECTS Benjamin Fong CHAO, Thomas JOHNSON, Andrew Y. AU, Mathew RODELL		
1400-145	G06/04P/D-019	Poster
SEA LEVEL IN HONG KONG, LOD AND THE FIRST EL NIÑO IN THE 21ST CENTURY Xiaoli DING, Dawei ZHENG, Yonghong ZHOU, Yongqi CHEN, Wu CHEN		
1400-146	G06/04P/D-020	Poster
VALIDATION OF GRACE TIME VARIABLE GRAVITY AGAINST ATMOSPHERIC MASS VARIATIONS Isabella VELICOGNA, John WAHR, George HAJJ		
1400-147	G06/04P/D-021	Poster
IERS'S RAPID SERVICE AND PREDICTION CENTER BULLETIN A:CURRENT STATUS AND RECENT IMPROVEMENTS TO THE EARTHORIENTATION PARAMETER TIME SERIES Thomas J. JOHNSON		



GAI.06-Posters

Friday, July 4 PM

PALEOMAGNETISM AND FABRICS: REGIONAL AND GLOBAL GEODYNAMICAL CHALLENGES

Location: Site D

1400-148	GAI.06/04P/D-001	Poster
THE PALEOMAGNETIC-STRATIGRAPHICAL SCALE OF THE CAUCASUS MESO-CAINOZOIC DEPOSITS Telman Armenak SIRUNYAN, Samvel Ruben HOVHANISYAN		
1400-149	GAI.06/04P/D-002	Poster
NEOGENE EVOLUTION OF NW ARGENTINE ANDES BASED ON PALEOMAGNETIC AND KINEMATIC FEATURES. Guillermo H. RE, Maria Silvia JAPAS, Silvia Patricia BARREDO		
1400-150	GAI.06/04P/D-003	Poster
LATE-HERCYNIAN TECTONIC ENVIRONMENT REVEALED BY ANISOTROPY OF MAGNETIC SUSCEPTIBILITY OF GRANITOIDS FROM SOUTHERN CORSICA AND NORTHERN SARDINIA. Jerome GATTACCECA, Bernard HENRY		
1400-151	GAI.06/04P/D-004	Poster
NEW AFRICAN PALEOMAGNETIC POLE FROM DOLERITES OF THE TIN SERIRINE BASIN (SAHARAN CRATON, ALGERIA) Mohamed E.M. DERDER, Bernard HENRY, Boualem BAYOU, Hamou DJELLIT, Aziouz OUABADI, Herve BELLON, Mohamed AMENNA, Kamal BAZIZ, Mounir MERAHI, Allauha KHALDI, Abderahmane HEMMI		

1400-152	GAI.06/04P/D-005	Poster
AN ANCIENT REMANENT MAGNETIZATION CARRIED BY ILMENO-HEMATITE IN THE DEVONIAN ACHALA BATHOLITH, CORDOBA, ARGENTINA Silvana Evangelina GEUNA, Leonardo Dario ESCOSTEGUY, Roberto MIRO		
1400-153	GAI.06/04P/D-006	Poster
ROCK MAGNETIC AND PALEOMAGNETIC STUDIES ON BHUJ, GUJARAT, INDIA Chandrasekaran LAKSHMINARASIMHAN, Shiva Kumar PATIL, Baldev Raj ARORA		
1400-154	GAI.06/04P/D-007	Poster
THREE-DIMENSIONAL DIPOLAR VORTEX ROSSBY WAVE IN THE NON-ISOTHERMAL ATMOSPHERE Avtandil D. PATARAIA, Tamara A. PATARAIA,		

GAII.03

Friday, July 4 PM

MEASUREMENT TECHNIQUES IN THE MIDDLE/UPPER ATMOSPHERE AND IONOSPHERE (IAGA, ICMA)

Location: Site A, Room 13

Presiding Chair: A.E. Mousa		
1400	GAII.03/04P/A13-001	Invited
DATA ASSIMILATION EXPERIMENTS IN NERIMA HEAVY RAINFALL:- HOW USEFUL ARE GPS-DERIVED WATER VAPOR AND DOPPLER RADAR RADIAL WIND?-		
Hiromu SEKO, Takuya KAWABATA, Tadashi TSUYUKI, Hajime NAKAMURA, Ko KOIZUMI, Tetsuya IWABUCHI		
1435	GAII.03/04P/A13-002	
GPS REAL -TIME ESTIMATION OF PRECIPITABLE WATER VAPOR AND ITS APPLICATION ON WEATHER FORECAST IN HONG KONG		
Yong-Qi CHEN, Xiaoya WANG, Ping-Wah LI		
1455	GAII.03/04P/A13-003	
HIGH-RESOLUTION LOCAL GPS WATER-VAPOR TOMOGRAPHY WITH FLEXIBLE SPATIOTEMPORAL CONSTRAINTS		
Kazuro HIRAHARA		
1515	GAII.03/04P/A13-004	
TO INVESTIGATE GPS RECEIVER USING ZERO BASELINE THEORY		
Chun Sung CHEN, Mei Li LIU		

1535	BREAK	
1600	GAII.03/04P/A13-005	Invited
THE GLOBAL STRUCTURE OF ATMOSPHERIC WATER VAPOR AS DERIVED FROM GPS OCCULTATIONS		
Emil Robert KURSINSKI, Chi AO, George A. HAJJ, Ron MASTALER, Stig SYNDERGAARD, Dong WU, Daniel HANKINS		
1635	GAII.03/04P/A13-006	
ANNUAL COMPONENT IN TOPEX/POSEIDON BIAS DERIVED FROM IONOSPHERIC STUDIES		
Alejandro R. DIAZ, Amalia M. MEZA, Claudio A. BRUNINI, Wolfgang BOSCH		
1655	GAII.03/04P/A13-007	
ESTIMATES OF THREE DIMENSIONAL WATER VAPOR FIELDS DERIVED FROM A NETWORK OF GPS STATIONS		
John J. BRAUN, Christian ROCKEN, Randolph WARE, Ying-Hwa KUO, Richard ANTHERS		
1715	GAII.03/04P/A13-008	
APPLICATION OF GPS OCCULTATIONS FOR STUDIES OF ATMOSPHERIC WAVES IN THE MIDDLE ATMOSPHERE AND IONOSPHERE		
Toshitaka TSUDA		

GAIII.13

Friday, July 4 PM

REPORTER REVIEWS

Location: Site A, Room 2

Co-Convenor: S. Schwartz Presiding Chair: B.J. Anderson		
1400	GAIII.13/04P/A02-001	Invited
REPORTER REVIEW: DYNAMICS OF THE GEOMAGNETIC TAIL		
Shin-ichi OHTANI		
1445	GAIII.13/04P/A02-002	Invited
MULTI-SCALE PHYSICS IN THE AURORAL ACCELERATION REGION: REPORTER REVIEW		
Robert L. LYSAK		
1545	GAIII.13/04P/A02-003	Invited
DYNAMICS OF THE INNER MAGNETOSPHERE'S MAGNETIC AND PLASMA ENVIRONMENT DURING STORMS AND SUBSTORMS		
Mark B. MOLDWIN		

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1630 **GAI.13/04P/A02-004** **Invited**
WAVE-PARTICLE INTERACTIONS
Richard Bertram HORNE

GAIV.02 **Friday, July 4 PM**

COUPLING COMPLEXITY IN THE HELIOSPHERE

Location: Site A, Room 6

Presiding Chairs: A. Klimas, T. Chang

1400 **GAIV.02/04P/A06-001**
ON THE POSSIBILITY OF COMBINED ACTION OF SOLAR FLARES AND CORONAL HOLES LEADING TO ORIGIN OF CORONAL MASS EJECTIONS
Virendra Kumar VERMA

1430 **GAIV.02/04P/A06-002**
OPEN QUESTIONS ABOUT OPEN SYSTEMS: CORONAL LOOPS AS COMPLEX MULTI-SCALE STRUCTURES
Igor S. VESELOVSKY

1510 **GAIV.02/04P/A06-003**
SEARCH FOR NON-LINEAR WAVE INTERACTIONS IN SOLAR WIND CLUSTER ELECTRIC FIELD DATA
Jan SOUCEK, Thierry DUDOK DE WIT, Vladimir KRASNOSELSKIKH, Ondrej SANTOLIK, Jolene PICKETT

1540 **BREAK**

1600 **GAIV.02/04P/A06-004**
SELF-ORGANIZATION IN A CURRENT SHEET PLASMA MODEL
Juan Alejandro VALDIVIA

1640 **GAIV.02/04P/A06-005**
GEOSPACE: QUITE COMPLEX AND COUPLED
Joachim RAEDER

1720 **GAIV.02/04P/A06-006**
EMBEDDED SIMULATIONS OF COLLISIONLESS RECONNECTION
Lin YIN, Dan WINSKE

GAV.03 **Friday, July 4 PM**

THE GEOSPACE ENVIRONMENT IN NEAR-REAL TIME: SCIENCE AND TECHNOLOGY (DIVISION V LEAD, JOINT WITH DIVISION III, INTERDIVISIONAL WG ON POLAR RESEARCH, AND CEOS)

Location: Site A, Room 7

Presiding Chairs: Y. Yi, T. Iyemori

1400 **GAV.03/04P/A07-001** **Invited**
AN INTERPRETATION FOR THE NONLINEAR WAVES IN UPPER IONOSPHERE
Jiankui SHI, Baoyun XU, Xiao WANG, Zhenxing LIU

1420 **GAV.03/04P/A07-002** **Invited**
CONCERNING SPACE CLIMATOLOGY
Karl-Heinz GLASSMEIER, Anja STADELMANN, Joachim VOGT, Bertalan ZIEGER, May-Britt KALLENRODE, Edwina WOLFF, Miriam VON KOENIG, Klaus KUENZI

1440 **GAV.03/04P/A07-003**
USE OF LONGITUDINAL MAGNETOMETER ARRAY FOR MONITORING SPACE ENVIRONMENT
Toshihiko IYEMORI, Masahito NOSE, De-Sheng HAN, Yu-Fen GAO

1455 **GAV.03/04P/A07-004**
IONOSPHERIC OBSERVATION BY KOREAN SATELLITES
Kyoung Wook MIN

1510 **GAV.03/04P/A07-005**
NORSTAR - A CANADIAN INITIATIVE FOR REMOTE SENSING PARTICLE PRECIPITATION
Eric DONOVAN, Trond TRONDSSEN, Emma SPANSWICK, Brian JACKEL, Mikko SYRJASUO, Igor VORONKOV, Fokke CREUTZBERG, Donald WALLIS

1525 **GAV.03/04P/A07-006**
SOLAR-TERRESTRIAL DATA ANALYSIS AND REFERENCE SYSTEM: STARS
Ken Takeshi MURATA

1540 **BREAK**

1600 **GAV.03/04P/A07-007** **Invited**
MAGNETOSPHERIC DIAGNOSTICS USING ULF WAVES
Brian J. FRASER

1620 **GAV.03/04P/A07-008** **Invited**
GROUND-BASED NETWORK OBSERVATIONS FOR SPACE WEATHER STUDY
Kiyohumi YUMOTO, the CPMN Group

1640 **GAV.03/04P/A07-009** **Invited**
ADVANCES IN SPACE ENVIRONMENT PREDICTION CENTER IN CHINA
Siqing LIU, Jiancun GONG, Zonghai YE

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1700 **GAV.03/04P/A07-010**
THE STEP POLAR NETWORK - REFORMATION, RELOCATION AND HIBERNATION
Kanji HAYASHI

1715 **GAV.03/04P/A07-011**
FORECASTING THE MAGNETIC STORM INTENSITY GROWTH RATE CHANGE WITH NEAR-REAL TIME DATA ANALYSIS OF THE L1 POINT SOLAR WIND MEASUREMENTS
Yu YI, Su Yeon OH

1730 **GAV.03/04P/A07-012**
REAL TIME DATA RECEPTION OF ACE AND IMAGE SATELLITES
Eiichi SAGAWA, Shigeaki WATANABE, Kazuhiro OHTAKA, Hironori SHIMAZU, Ronald D. ZWICKL, Terrance G. ONSAGER

1745 **GAV.03/04P/A07-013**
RELATION OF THE PC INDEX TO ABRUPT CHANGES IN SOLAR WIND PARAMETERS
Renata Y. LUKIANOVA

GADC.02-Posters **Friday, July 4 PM**

SPACE WEATHER EFFECTS AT EQUATORIAL AND LOW LATITUDE

Location: Site D

1400-155 **GADC.02/04P/D-001** **Poster**
NUMERICAL MODEL OF ELECTRIC FIELDS FOR THE HIGH-LATITUDE AND LOW LATITUDE IONOSPHERE UNDER QUIET AND MODERATELY DISTURBED CONDITIONS
Monio D. KARTALEV, Vladimir PAPITASHVILI

1400-156 **GADC.02/04P/D-002** **Poster**
IMAGING RIOMETER OBSERVATIONS FOR ENERGETIC ELECTRON PRECIPITATION AT THE SOUTH ATLANTIC MAGNETIC ANOMALY
Masanori NISHINO, Kazuo MAKITA, Kiyohumi YUMOTO, Nelson SCHUCH, Mangalathayil ABDU, Fabiano RODRIGUES

1400-157 **GADC.02/04P/D-003** **Poster**
WAVELET ANALYSIS OF GEOMAGNETIC STORM TIME-SERIES OBSERVED IN BRAZIL
Mauricio J.A. BOLZAN, Yogeshwar SAHAI, Paulo R. FAGUNDES, Jose R. ABALDE, Fernando M. RAMOS, Reinaldo R. ROSA

1400-158 **GADC.02/04P/D-004** **Poster**
HISTORICAL APPROACH TOWARDS THE OCCURRENCE CHARACTERISTICS OF GEOMAGNETIC STORMS
Gurbax S. LAKHINA, Sobhana ALEX, B.D. KADAM



MC05 **Friday, July 4 PM**

MIDDLE ATMOSPHERE SCIENCE (ICMA)

Location: Site B, Room 21

Presiding Chair: K. Shibata

1400 **MC05/04P/B21-001** **Invited**
GROUND-BASED MILLIMETER-WAVE OBSERVATIONS OF STRATOSPHERIC CLO IN THE MID-LATITUDE REGION IN THE SOUTHERN HEMISPHERE AND A PLAN OF THE SIMULTANEOUS MEASUREMENTS OF ISOTOPIC WATER VAPOR LINES
Akira MIZUNO, Tomoo NAGAHAMA, Yasuo FUKUI, Norikazu MIZUNO, Hideaki NAKANE, Hideo OGAWA, Yoshinori YONEKURA, Shinichirou ASAYAMA, Atsushi MORIHIRA

1430 **MC05/04P/B21-002**
DETERMINATION OF PATHWAYS IN CHEMICAL REACTION SYSTEMS: AN ALGORITHM AND ITS APPLICATION TO STRATOSPHERIC CHEMISTRY
Ralph LEHMANN

1450 **MC05/04P/B21-003**
NORTHERN AND SOUTHERN HEMISPHERIC MONTHLY AVERAGED OZONE AND NITROUS OXIDE FROM THE IMPROVED LIMB ATMOSPHERIC SPECTROMETER (ILAS)
Farahnaz KHOSRAWI, Rolf MUELLER, Michael H. PROFFITT, Hideaki NAKAJIMA, Yasuhiro SASANO

1510 **MC05/04P/B21-004**
GLOBAL MAPPING OF OZONE FROM SPACE: VALIDATIONS WITH AIRCRAFT AND GROUND BASED SPECTRAL RADIOMETERS
Shepard A. CLOUGH, Mark W. SHEPHARD, Curtis P. RINSLAND, Henry E. RVERCOMB, Robert O. KNUTESON

1530 **BREAK**

1600 MC05/04P/B21-005

EVIDENCE FOR AEROSOL LAYERS IN THE WINTER MESOSPHERE
Sheila Catherine KIRKWOOD, Victoria BARABASH, Evgenia BELOVA, Ulrich BLUM, Philip CHILSON, K.-H. FRICKE, Aleftina OSEPIAN, Nick MITCHELL, Hans NILSSON, Thota Narayana RAO, Kerstin STEBEL

1620 MC05/04P/B21-006

MEAN VERTICAL WIND MEASURED BY RADAR, WITH PROBLEMS OF SAMPLE BIAS
Richard M. WORTHINGTON

1640 MC05/04P/B21-007

HORIZONTAL MAPS OF ECHO POWER WITHIN THE LOWER STRATOSPHERE USING THE MU RADAR
Masafumi HIRONO, Hubert LUCE, Richard M. WORTHINGTON, Mamoru YAMAMOTO, Shoichiro FUKAO

1700 MC05/04P/B21-008

LONGITUDINAL VARIATION OF SUMMER-TIME MIDDLE ATMOSPHERE JET IN THE ARCTIC AS OBSERVED POKER FLAT AND ANDENES MF RADARS
Yasuhiro MURAYAMA, Shin-ichiro OYAMA, Kaoru SATO, Toshihiko HIROOKA, Saburo MIYAHARA, Yoshio KAWATANI, Masaaki TAKAHASHI, Werner SINGER, Dennis RIGGIN



IPSO

P01 Friday, July 4 PM

WESTERN BOUNDARY CURRENTS

Location: Site B, Room 18

Presiding Chairs: H. Mitsudera, Y. Wakata

1400 P01/04P/B18-001 Invited

KUROSHIO EXTENSION VARIABILITY AND FORCING OF THE PACIFIC DECADAL OSCILLATIONS: RESPONSES AND POTENTIAL FEEDBACK
Bo QIU

1430 P01/04P/B18-002

MONITORING THE KUROSHIO EXTENSION THROUGH DYNAMICALLY CONSTRAINED SYNTHESIS OF THE ACOUSTIC TOMOGRAPHY, SATELLITE ALTIMETER AND IN SITU DATA
Humio MITSUDERA, Konstantin V. LEBEDEV, Max YAREMCHUK, Iwao NAKANO, Gang YUAN

1450 P01/04P/B18-003

CO-VARIATIONS OF SEA SURFACE TEMPERATURE AND WIND OVER THE KUROSHIO AND ITS EXTENSION
Masami NONAKA, Shang-Ping XIE

1510 P01/04P/B18-004

FRONTAL EDDIES AND FORMATION OF NORTH PACIFIC INTERMEDIATE WATER ALONG THE KUROSHIO EXTENSION
Shinya KOUKETSU, Ichiro YASUDA, Yutaka HIROE

1530 P01/04P/B18-005

FINESCALE STRUCTURE OF THE KUROSHIO: OBSERVATIONS OF ENERGETIC INTERNAL WAVES
Luc RAINVILLE, Robert PINKEL

1550 BREAK

1610 P01/04P/B18-006

INTERANNUAL VARIABILITY OF KUROSHIO VOLUME TRANSPORT IN AN OGCM SIMULATION
Yoshinobu WAKATA, Takashi SETOU

1630 P01/04P/B18-007

A NUMERICAL STUDY ON PREDICTABILITY OF INTERANNUAL VARIABILITY OF THE KUROSHIO TRANSPORT
Kiyoshi TANAKA, Motoyoshi IKEDA, Yukio MASUMOTO

1650 P01/04P/B18-008

SENSITIVITY OF THE KUROSHIO TRANSPORT SOUTH OF JAPAN GENERATED BY THE TWO WIND DATASET IN OGCM CALCULATION
Hiroshi YOSHINARI, Kiyoshi TANAKA, Motoyoshi IKEDA, Yukio MASUMOTO

1710 P01/04P/B18-009

CHARACTERISTICS OF ALTIMETRY SSH ANOMALY OF TOPEX/POSEIDON ON THE OICE LINE AND ITS RELATION FOR MEASURED VELOCITY AND TRANSPORT IN THE OYASHIO REGION
Shin-ichi ITO, Kazuyuki UEHARA, Takashi MIYAO, Hideo MIYAKE, Ichiro YASUDA, Yugo SHIMIZU, Tomoo WATANABE

1730 P01/04P/B18-010

NUMERICAL STUDY ON THE FORMATION OF THE MESOTHERMAL STRUCTURE IN THE NORTH PACIFIC SUBARCTIC GYRES
Takahiro ENDOH, Humio MITSUDERA, Shang-Ping XIE, Bo QIU

P06 Friday, July 4 PM

THE SOUTHERN OCEAN (SCOR, SCAR)

Location: Site B, Room 19

Presiding Chairs: E. Hofmann, K. Heywood

1400 P06/04P/B19-001

THE SOUTHERN OCEAN, A KEY PLAYER IN THE GLOBAL CARBON CYCLE
Dorothee BAKKER, Mario HOPPEMA, Andrew WATSON, Yann BOZEC, Hein De BAAR

1440 P06/04P/B19-002

WHAT CONTROLS THE UPTAKE OF ANTHROPOGENIC CO₂ IN THE SOUTHERN OCEAN?
Takamitsu ITO, John MARSHALL, Mick FOLLOWS

1500 P06/04P/B19-003

THE ROLE OF MARGINAL ICE ZONE IN THE CARBON CYCLE IN THE SOUTHERN OCEAN
Liqi CHEN, Zhongyong GAO, Weiqiang WANG, Xulin YANG

1520 P06/04P/B19-004 Invited

ADDING IRON TO THE SOUTHERN OCEAN - WHAT IRON ENRICHMENT EXPERIMENTS CAN TELL US ABOUT NATURAL SOURCES AND SINKS FOR IRON.
Peter L. CROOT

1620 P06/04P/B19-005

THE TRACER SIGNATURE OF SHELF WATERS IN THE ROSS SEA (ANTARCTICA)
Paola RIVARO, Andrea BERGAMASCO, Giorgio BUDILLON, Serena MASSOLO, Giancarlo SPEZIE

1600 BREAK

1640 P06/04P/B19-006

CROSS SHELF EXCHANGE IN MODELS OF THE ROSS SEA AND WEST ANTARCTIC PENINSULA CIRCULATION AND BIOGEOCHEMISTRY
John M. KLINCK, Michael S. DINNIMAN, Walker O. SMITH, JR., Eileen E. HOFMANN

1700 P06/04P/B19-007

AUSTRAL FALL AND WINTER DISTRIBUTIONS OF ZOOPLANKTON IN THE SOUTHERN OCEAN GLOBEC STUDY SITE ON THE WESTERN ANTARCTIC PENINSULA DURING 2001 AND 2002.
Peter H. WIEBE, Gareth L. LAWSON, Carin J. ASHJIAN, Scott M. GALLAGER, Cablell S. DAVIS, Joseph D. WARREN

1720 P06/04P/B19-008

SEASONAL AND INTERANNUAL VARIATIONS IN HYDROGRAPHIC DISTRIBUTIONS IN MARGUERITE BAY AND ENVIRONS
Eileen E. HOFMANN, John M. KLINCK, Robert C. BEARDSLEY



IASPEI

SS03 Friday, July 4 PM

TECTONOPHYSICS AND CRUSTAL STRUCTURE

Location: Site A, Room 3

Presiding Chairs: B. Kennett, H. Sato

1400 SS03/04P/A03-001

LITHOSPHERIC STRUCTURE AND GEODYNAMIC EVOLUTION OF THE DEAD SEA TRANSFORM FAULT PLATE BOUNDARY IN SYRIA AND LEBANON: IMPLICATIONS FOR EARTHQUAKE HAZARD ASSESSMENT
Muawia BARAZANGI

1415 SS03/04P/A03-002

GEOPHYSICAL EVIDENCES OF THE BOUNDARY BETWEEN SINO-KOREA AND YANGTZE BLOCK IN YELLOW SEA
Tianyao HAO, Mancheol SUH, Jianhua LIU, Weiwei JIANG, Xiaowei YAN, Suckwon CHOI

1430 SS03/04P/A03-003

ACTIVE BLIND-FAULTS AND EARTHQUAKE DANGER IN SW JAPAN
S. Jason ZHAO, T. HORI, Y. KANEDA

1445 SS03/04P/A03-004

SAFE-TOOLS: A WEB-BASED APPLICATION FOR IDENTIFYING ACTIVE FAULTS
Kuvvet ATAKAN, Michel SEBRIER, Thierry CAMELBEECK, Lionel SIAME, Gianluca VALENSISE, Thierry WINTER

1500 SS03/04P/A03-005

ENERGY AND FLUID TRANSPORT IN CONTINENTAL FAULT SYSTEMS - NEW LARGE SCALE RESEARCH PROGRAMME FOR KTB STARTED
Hans-J. KUEMPEL, Joerg ERZINGER, Wolfgang RABBEL, Sergei SHAPIRO

**WEEK
A
FRI
PM**

1515 SS03/04P/A03-006
SOME CHARACTERISTIC FEATURES OF FAULTING TECTONICS IN THE TERRITORY OF VIETNAM
Cao Dinh TRIEU, Cao Dinh TRIEU, Pham Huy LONG

1530 BREAK

1600 SS03/04P/A03-007
STRUCTURE AND BEHAVIOR OF THE ITOIGAWA-SHIZUOKA TECTONIC LINE, CENTRAL JAPAN, IN QUATERNARY TIME: PARTITIONING OF SLIP ON AN OBLIQUE-SLIP FAULT ZONE
Nobuhisa MATSUTA, Yasutaka IKEDA, Hiroshi SATO

1615 SS03/04P/A03-008
IMAGING OF SCATTERER AND THEIR GEOLOGICAL INTERPRETATION AROUND THE ACTIVE FAULTS IN JAPAN
Tomonori KAWAMURA, Shin KOSHIYA, Takahiro MIYAUCHI, Hiroshi SATO, Tanio ITO

1630 SS03/04P/A03-009
EVOLUTION OF THE NORTHERN PART OF ITOIGAWA-SHIZUOKA TECTONIC LINE REVEALED BY DEEP SEISMIC PROFILING, CENTRAL JAPAN
Hiroshi SATO, Takaya IWASAKI, Naoshi HIRATA, Nobuhisa MATSUTA, Tetsuya TAKEDA, Yasutaka IKEDA, Eiji KURASHIMO, Shinji KAWASAKI, Taku KAWANAKA, Takeshi IKAWA

1645 SS03/04P/A03-010
MAPPING THE B-VALUE AND ITS CORRELATION WITH THE FRACTAL DIMENSION IN THE NORTHEAST REGION OF INDIA
Pankaj Mala BHATTACHARYA, J.R. KAYAL

1700 SS03/04P/A03-011
THE FEATURES OF INTRAPLATE FAULTING JUNCTIONS' SEISMICITY AND THEIR ROLE IN SEISMIC ZONATION
Sergey Norayr NAZARETYAN

1715 SS03/04P/A03-012
GEOLOGICAL-STRUCTURAL MODELS OF STRONG EARTHQUAKE SOURCES OF ARMENIAN UPLAND
Ashot AVANESYAN

1730 SS03/04P/A03-013
ACTIVE TECTONIC FAULTS ON SOME AREAS AROUND THE NILE VALLEY, EGYPT: A CONTRIBUTION FROM POTENTIAL FIELD DATA
Hosni Hassan GHAZALA

1745 SS03/04P/A03-014
SEISMOTECTONICS OF THE KHALKHAL AREA, SW OF THE CASPIAN SEA
Yousef SATTARZADEH GHADIM



V05b-Posters Friday, July 4 PM

VOLCANIC FLOWS: OBSERVATION, EXPERIMENT, AND THEORY
Location: Site D

Presiding Chair: T. Koyaguchi

1400-236 V05b/04P/D-001 Poster
THE PYROCLASTIC FLOWS OCCURRED MELTING MAGMA MASS COLLAPSE, 1500 YEARS AGO IN THE YOUNGER FUJI VOLCANO, JAPAN
Yasuhisa TAJIMA, Shigeo ARAMAKI, Naoko TAKI, Mituhiro YOSIMOTO, Naomichi MIYAJI, Masato KOYAMA, Nobuo ANYOJI, Yoko TOMITA

1400-237 V05b/04P/D-002 Poster
SORTING IN PLINIAN ERUPTION COLUMN AND PYROCLASTIC FLOW GENERATION IN HISTORIC ERUPTIONS FROM TARUMAI VOLCANO, NORTHERN JAPAN
Ryuta FURUKAWA

1400-238 V05b/04P/D-003 Poster
THE GIANT DUNE BED FACIES OF THE OHAKURI IGNIMBRITE (TAUPO VOLCANIC ZONE, NEW ZEALAND), AS REVEALED BY GROUND PENETRATING RADAR
Darren McClurg GRAVLEY, Matt I. WATSON, James W. COLE, Colin J.N. WILSON

1400-239 V05b/04P/D-004 Poster
IN-SITU DETERMINATION OF PHYSICAL CONDITION WITHIN RUNNING PYROCLASTIC FLOW: UNZEN VOLCANO, JAPAN, 1992
Hiromitsu TANIGUCHI, Keiko SUZUKI-KAMATA, Setsuya NAKADA, Hiroki KAMATA, Kazuyoshi SANGEN, Takeshi MATSUSHIMA, Tetsuya UEDA

1400-240 V05b/04P/D-005 Poster
THE SENSITIVITY OF A VOLCANIC FLOW MODEL TO DIGITAL ELEVATION MODELS FROM DIVERSE SOURCES
Nicki F STEVENS, Vernon MANVILLE, David W HERON

1400-241 V05b/04P/D-006 Poster
EJECTION AND FLOW MECHANISMS OF KOYA PYROCLASTIC FLOW.
Makoto FUJIHARA, Keiko SUZUKI-KAMATA

1400-242 V05b/04P/D-007 Poster
EMPLACEMENT TEMPERATURE ESTIMATION OF THE IKEDA PYROCLASTIC FLOW FROM THE IKEDA CALDERA, SOUTHERN JAPAN, USING PALEOMAGNETIC MEASUREMENT
Atsushi ISHIDA, Keiko SUZUKI-KAMATA

1400-243 V05b/04P/D-008 Poster
FLOW MECHANISMS OF THE 1991-1995 BLOCK-AND ASH FLOWS AT UNZEN VOLCANO, JAPAN; FINES-DEPLETED DEPOSITS FORMED FROM THE SELF-EXPLOSION OF ESSENTIAL LAVA BLOCKS IN BLOCK-AND-ASH FLOWS
Takashi KUSANO, Keiko SUZUKI-KAMATA

1400-244 V05b/04P/D-009 Poster
1640 ERUPTION OF HOKKAIDO-KOMAGATAKE VOLCANO, JAPAN
Mitsuhiro YOSHIMOTO

1400-245 V05b/04P/D-010 Poster
SHIFTING STYLES OF EXPLOSIVE ACTIVITY DURING THE SUMMER 2001 ERUPTION OF MT. ETNA (ITALY): INFERENCES FROM GLASS CHEMISTRY AND CSD OF ASH PARTICLES
Jacopo TADDEUCCI, Massimo POMPILIO, Piergiorgio SCARLATO

1400-246 V05b/04P/D-011 Poster
AN EXPERIMENTALLY-BASED MODEL FOR THE ASH EXPLOSIONS OF THE SUMMER 2001 FLANK ERUPTION OF MT. ETNA (ITALY)
Jacopo TADDEUCCI, Oliver SPIELER, Ben KENNEDY, Donald DINGWELL, Massimo POMPILIO, Piergiorgio SCARLATO

1400-247 V05b/04P/D-012 Poster
CSD ANALYSES OF PLAGIOCLASE MICROLITE ON THE EJECTA OF TAISHO (1914-15 A.D) ERUPTION, SAKURAJIMA VOLCANO, KYUSHU, JAPAN
Keisuke NAKAMURA

V13 Friday, July 4 PM

ASSESSING VOLCANIC RISK
Location: Site A, Room 1

Presiding Chairs: G. Valentine, Y. Ida

1400 V13/04P/A01-001
REVISED DEFINITION AND RANKING OF ACTIVE VOLCANOES IN JAPAN
Tadahide UI, Yoshiaki IDA, Shintaro HAYASHI, Hiroki KAMATA, Yoshihisa KAWANABE, Yukihiro KATO, Tatsuro CHIBA, Koji FUJITA, Miki SHIOYA, Yutaka HAYASHI, Kouichi UHIRA

1415 V13/04P/A01-002
MAKING HAZARD MAPS AND DISASTER MITIGATION PROGRAMS OF FUJI VOLCANO, JAPAN
Shigeo ARAMAKI, Tohru ARAYA, Akihiko NUNOMURA, Shunsuke MUTAI, Koichi KONDO, Manabu KOMIYA

1430 V13/04P/A01-003
UNEXPECTED EVOLUTION OF VOLCANIC ACTIVITY CAUSING SOME DIFFICULTY WITH ERUPTION PREDICTION: RECENT EXAMPLES IN JAPAN AND POSSIBLE PRECAUTIONS
Yoshiaki IDA

1445 V13/04P/A01-004
JOINING GEOTHERMAL DATA BY BAYESIAN INFERENCE TO IMPROVE VOLCANIC RISK ASSESSMENT
Andrew James MARTIN, Masaki TAKAHASHI, Yasuhisa YUSA, Koji UMEDA, Masaharu TANEMURA

1500 V13/04P/A01-005
CRISIS TIME DURATIONS PRIOR VOLCANIC ERUPTIONS IN INDONESIA
Achmad D. WIRAKUSUMAH

1515 V13/04P/A01-006
REASSESSING VOLCANIC HAZARD POTENTIALS OF THE TAIPEI METROPOLITAN AREA, TAIWAN: NEW INSIGHTS FROM SEDIMENT RECORDS
Louis Suh-Yui TENG

1530 V13/04P/A01-007
HYDROLOGIC AND ERUPTIVE HAZARDS AT TIANCHI VOLCANO
Haiquan WEI, Hanjing HONG, RSJ. SPARKS, Joseph S. WALDER

1545 V13/04P/A01-008
MODELING STUDY OF THE AVACHINSKY VOLCANO CONE HYDROTHERMAL ERUPTION CONDITIONS
Alexey V. KIRYUKHIN, Irina K. DUBROVSKAYA, Nina I. KIRYUKHINA

1600 BREAK

1615 V13/04P/A01-009

VOLCANIC HAZARD ASSESSMENT AT OLDOINYO LENGAI, TANZANIA:
PROBABILITY AND POSSIBLE EXTENT OF MAJOR EXPLOSIVE EVENTS AS
DEDUCED FROM 2000 YRS OF DOCUMENTED EVOLUTION

Jorg KELLER, Jurgis KLAUDIUS

1630 V13/04P/A01-010

EXPLOSIVE ERUPTION RISK AND DECISION SUPPORT FOR EU
POPULATIONS THREATENED BY VOLCANOES: THE EXPLORIS PROJECT

Augusto NERI, THE EXPLORIS GROUP

1645 V13/04P/A01-011

HAZARD ASSESSMENT IN THE ETNEAN AREA USING THE SCIARA MODEL:
APPLICATIONS TO REAL CASES

Gino M. CRISCI, Rocco RONGO, Salvatore DI GREGORIO, William SPATARO

1700 V13/04P/A01-012

COMPOSITIONAL VARIATION DURING MONOGENETIC VOLCANO GROWTH
AND ITS IMPLICATIONS FOR VOLCANIC HAZARDS IN CONTINENTAL
VOLCANIC FIELDS

Karoly NEMETH, James D.L. WHITE, Reay ANTHONY, Ulrike MARTIN

1715 V13/04P/A01-013

EVALUATING RISK TO AN UNDERGROUND FACILITY FROM A STROMBOLIAN
ERUPTION

Don KRIER, Grant HEIKEN, Gordon KEATING, Frank PERRY

1730 V13/04P/A01-014

A LOW PROBABILITY-HIGH CONSEQUENCE EVENT

Leon REITER

1745 V13/04P/A01-015

DEVELOPMENT OF SITING FACTORS FOR SELECTING PRELIMINARY
INVESTIGATION AREAS OF HLW DISPOSAL IN JAPAN - EXCLUSION
CRITERIA OF IGNEOUS ACTIVITY

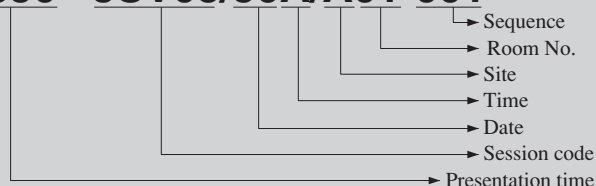
Hirofumi KONDO, Hiroyuki TSUCHI, Masanori KOBAYASHI, Akihisa KOIKE,
Hiroki HATAMOTO, Toshihiro SEO

WEEK
A
FRI
PM

Paper Numbers

Oral Presentation

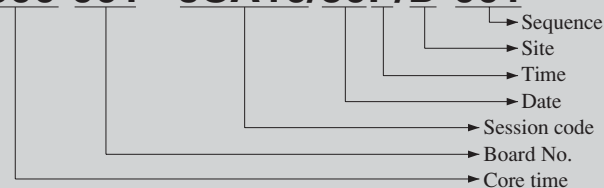
0830 JSV03/30A/A01-001



Example: 0830 JSV03/30A/A01-001 = Presentation begins at 8:30, JSV03, June 30, presentation in the morning (AM), Site A, Room 1, first paper in that session

Poster Presentation

1600-001 JSA10/30P/D-001



Example: 1600-001 JSA10/30P/D-001 = Core time begins at 16:00, Poster Board No.: 001, JSA10, June 30, core time in the afternoon (PM), Site D, first paper in that session

Saturday, July 5

AM

IA INTER-ASSOCIATION

JSM15 Saturday, July 5 AM

SPECIAL NAKAYA-MAGONO CELEBRATION: THE GROWTH OF ICE CRYSTALS AND SNOW (IAMAS [ICCP, ICPM], IAHS)

Location: Site A, Room 9

Conveners: R. List, G.A. Isaac, Y. Fujiyoshi, P.M.B. Foehn
Presiding Chair: R. List

OPENING CEREMONY

0930

Masaru KONO (President of IUGG)

0940

Mutsuo NAKAMURA (President of Hokkaido University)

0950

Michael KUHN (IAHS and Meteorology Institute, University of Innsbruck)

1005

Takeo HONDOH (Director of Institute of Low Temperature Science, Hokkaido University)

1030

JSM15/05A/A09-001

Invited

THE COMPLEX SNOW CRYSTAL
John HALLETT

1120

JSM15/05A/A09-002

Invited

DR.U.NAKAYA AND DR.C.MAGONO-PIONEERS OF CLOUD PHYSICS IN JAPAN AND THEIR SUCCESSORS -
Katsuhiro KIKUCHI

G IAG

G02

Saturday, July 5 AM

ADVANCED SPACE TECHNOLOGY. MEETING OF IAG SECTION II

Location: Site A, Room 1

Presiding Chairs: P. Willis, Y. Hatanaka

SPACE GEODETIC SYSTEM AND SERVICES (CONT'D) / SAR INTERFEROMETRY

0830

G02/05A/A01-001

SYNERGY OF VLBI AND GPS OBSERVATIONS IN JAPAN
Hiromichi TSUJI, Tadashi TANABE, Hiroshi KAWAWA, Kohhei MIYAGAWA, Kazuhiro TAKASHIMA, Shinobu KURIHARA, Yoshihiro FUKUZAKI, Shigeru MATSUZAKA

0845

G02/05A/A01-002

COLLOCATION RESULTS IN GSI'S SPACE GEODETIC NETWORK
Shigeru MATSUZAKA

0900

G02/05A/A01-003

ANALYSIS OF ASIA PACIFIC REGIONAL GEODETIC PROJECT GPS CAMPAIGN OBSERVATIONS
Yoshiyuki TANAKA, Shigeru MATSUZAKA, Tomomi AMAGAI, Hiromichi TSUJI

0915

G02/05A/A01-004

COMBINED PROCESSING OF GPS DATA FROM GROUND STATION AND LEO RECEIVERS
Urs HUGENTOBLE, Adrian JAEGGI, Gerhard BEUTLER

0930

G02/05A/A01-005

VLBI ONOS - PROBING THE IONOSPHERE BY MEANS OF VERY LONG BASELINE INTERFEROMETRY
Thomas HOBIGER, Johannes BOEHM, Harald SCHUH

0945

G02/05A/A01-006

NUMERICAL SIMULATIONS FOR GEODETIC PARAMETER ESTIMATION FROM SPACE VLBI DATA
Madhav N. KULKARNI, Praveen PILLAI, Sandor FREY

1000

BREAK

1010

G02/05A/A01-007

DEVELOPMENT OF THE GIGA-BIT GEODESY VLBI SYSTEM USING THE SUPER-SINET
Hiroshi TAKABA, Ken-ichi WAKAMATSU, Minoru YOSHIDA, Noriyuki KAWAGUCHI, Kazuhiro TAKASHIMA, Tetsuro KONDO

1025

G02/05A/A01-008

PRECISE POSITIONING OF SPACECRAFTS BY MULTI-FREQUENCY VLBI
Yusuke KONO, Hideo HANADA, Jinsong PING, Yasuhiro KOYAMA, Yoshihiro FUKUZAKI, Nobuyuki KAWANO

1040

G02/05A/A01-009

RAPID TURN AROUND EOP MEASUREMENTS BY VLBI OVER THE INTERNET
Yasuhiro KOYAMA, Tetsuro KONDO, Hiro OSAKI

1055

G02/05A/A01-010

REALIZATION OF A SEA-LEVEL MONITORING SYSTEM ON OCEANOGRAPHIC PLATFORMS IN THE BALTIC SEA
Gunter LIEBSCH, Lutz EBERLEIN, Reinhard DIETRICH

1110

BREAK

1120

G02/05A/A01-011

THE WRAPPED WORLD: PROGRESS AND CHALLENGES IN SPACEBORNE RADAR INTERFEROMETRY
Ramon F. HANSEN

1140

G02/05A/A01-012

ESTIMATING ORBITAL TRAJECTORIES FROM FRINGE GRADIENTS IN SAR INTERFEROGRAMS FOR MEASURING CRUSTAL STRAIN
Kurt L. FEIGL, Andreas O. KOLHHASE, Didier MASSONNET

1200

G02/05A/A01-013

REALISTIC ERROR MODELLING FOR INSAR
Tim J. WRIGHT, Peter J. CLARKE, Gareth J. FUNNING, Charles W. WICKS

1215

G02/05A/A01-014

AMBIGUITY RESOLUTION IN PS-INSAR DEFORMATION STUDIES USING INTEGER LEAST-SQUARES TECHNIQUES
Ramon F. HANSEN, Alessandro FERRETTI

**DETERMINATION OF THE GRAVITY FIELD. MEETING OF IAG
SECTION III**

Location: Site A, Room 3

Presiding Chairs: W. Featherstone, I. Tziavos, P. Berry

0830 G03/05A/A03-001

THE APPLICATION OF SPACE-BASED TECHNIQUES TO GLOBAL-SCALE TOPOGRAPHIC MAPPING

Philippa Anne BERRY

0845 G03/05A/A03-002

PROGRESS TOWARDS THE DEVELOPMENT OF A NEW NATIONAL VERTICAL DATUM FOR NEW ZEALAND

Matt AMOS, Will FEATHERSTONE, Graeme BLICK

0900 G03/05A/A03-003

HEIGHT DIFFERENCES DETERMINED BY GPS/LEVELING WITHIN LONG DISTANCE ACROSS SEA

Weiping JIANG, Jiancheng LI

0915 G03/05A/A03-004

INTEGRATED DETERMINATION OF THE GRAVITY FIELD AND VERTICAL DATUM SHIFTS FROM A COMBINATION OF SST/SGG MEASUREMENTS AND TERRESTRIAL GRAVITY AND POSITIONING DATA

Torsten FAULENBACH, Torsten MAYER-GUERR, Karl Heinz ILK

0930 G03/05A/A03-005

DEFINITION OF THE NEW SOUTH AMERICAN VERTICAL REFERENCE SYSTEM WITHIN A GLOBAL HEIGHT SYSTEM

Laura SANCHEZ

0945 G03/05A/A03-006

CONSTRUCTION OF A SYNTHETIC EARTH GRAVITY MODEL BY FORWARD GRAVITY MODELLING

Michael KUHN, William Edward FEATHERSTONE

1000 G03/05A/A03-007

SIMULATION OF GEIOD UNDULATION IN CHINA AND ITS SURROUNDINGS

Jian FANG, Houze HSU

1015 G03/05A/A03-008

FIRST RESULTS TOWARDS AN ISOSTATICALLY COMPENSATED REFERENCE EARTH MODEL

Dimitrios TSOULIS, Bernd STARY

1030 BREAK**1050 G03/05A/A03-009**

DATA FUSION FOR HIGH-RESOLUTION GEOID DETERMINATION

Gunter FINN, Erik W. GRAFAREND, Alireza A. ARDALAN

1105 G03/05A/A03-010

TOWARDS THE ESTIMATION OF A MULTI-RESOLUTION REPRESENTATION OF THE GRAVITY FIELD BASED ON SPHERICAL WAVELETS

Michael Georg SCHMIDT, C.K. SHUM, Oliver FABERT

1120 G03/05A/A03-011

STOKES INTEGRATION VERSUS WAVELET TECHNIQUES FOR REGIONAL GEOID MODELLING

Markus ROLAND, Heiner DENKER

1135 G03/05A/A03-012

HIGH-RESOLUTION GEOID COMPUTATION WITHOUT APPLYING STOKES'S FORMULACASE STUDY: HIGH-RESOLUTION GEOID OF IRAN

Abdolreza SAFARI, Alireza A. ARDALAN, Erik W. GRAFAREND

1150 G03/05A/A03-013

A PRELIMINARY GEOID MODEL FOR AFRICA

Charles L. MERRY, Denizar BLITZKOW, Hussein ABD-ELMOTAAL, Hassan

FASHIR, Saburi JOHN, Francis PODMORE, Derek FAIRHEAD

1205 G03/05A/A03-014

IMPROVEMENT OF GEOID MODEL FOR JAPAN BY COMBINING MARINE AND ALTIMETRIC GRAVITY MODELS BASED ON TWO-DIMENSIONAL WAVELET ANALYSIS

Yuki KUROISHI, Wolfgang KELLER

1220 G03/05A/A03-015

GRAVITY AND GEOID OF THE ARCTIC REGION: THE NORTHERN POLAR GAP NOW FILLED

Rene FORSBERG, Steve KENYON

WEEK

A

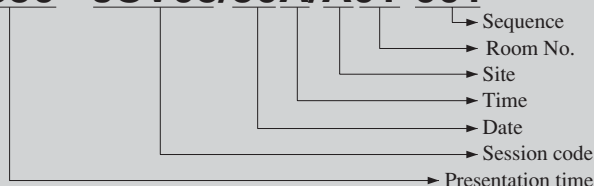
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Paper Numbers

Oral Presentation

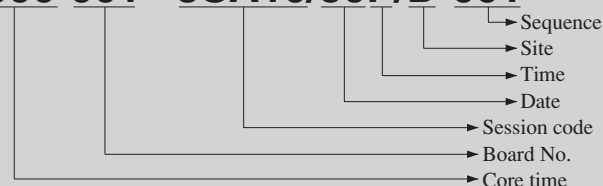
0830 JSV03/30A/A01-001



Example: 0830 JSV03/30A/A01-001 = Presentation begins at 8:30, JSV03, June 30, presentation in the morning (AM), Site A, Room 1, first paper in that session

Poster Presentation

1600-001 JSA10/30P/D-001



Example: 1600-001 JSA10/30P/D-001 = Core time begins at 16:00, Poster Board No.: 001, JSA10, June 30, core time in the afternoon (PM), Site D, first paper in that session

Monday, July 7

AM



UNION

UNION LECTURE FOR U5 Monday, July 7 AM

MODELING OF THE EARTH'S DYNAMO

Location: Site D, Room 32

0800 UL5/07A/D32-001
MODELING OF THE EARTH'S DYNAMO
Gary A. GLATZMAIER

U5 Monday, July 7 AM

STRUCTURE AND DYNAMICS OF THE EARTH'S INTERIOR

Location: Site D, Room 32

Conveners: B. Kennett, D. Gubbins

0900 U5/07A/D32-001
THE EARTH'S CORE: AN APPROACH FROM FIRST PRINCIPLES
G. David PRICE, L. VOCADLO, D. ALFE, M.J. GILLAN

0930 U5/07A/D32-002
CORE-MANTLE BOUNDARY INTERACTIONS
Bruce BUFFETT

1030 U5/07A/D32-003
CORE-MANTLE BOUNDARY STRUCTURES AND PROCESSES
Thorne LAY, Edward J. GARNERO

1100 U5/07A/D32-004
SEISMIC MANTLE STRUCTURE: TRAJECTORY OF MANTLE FLOW
Yoshio FUKAO

1130 U5/07A/D32-005
MANTLE CONVECTION AND GEOCHEMICAL CONSTRAINTS
Yanick RICARD



INTER-ASSOCIATION

JSG01

Monday, July 7 AM

SECULAR, TRANSIENT AND PERIODIC CRUSTAL MOVEMENTS AND THEIR GEOPHYSICAL IMPLICATIONS (IAG, IASPEI)

Location: Site A, Room 1

Convener: K. Heki
Co-Convener: P. Segall
Presiding Chair: P. Segall

0900 JSG01/07A/A01-001
THE VERTICAL DISPLACEMENTS OF JAPAN REVEALED BY MULTIPLE GEODETIC TECHNIQUES

Makoto MURAKAMI, Tetsuro IMAKIIRE, Tadashi SAITO, Tsugunori NARITA, Seiji OKAMURA, Toshio KUNIMI, Eiichi HAKOIWA, Hiroyuki NAKAGAWA, Kazuo KOMAKI

0915 JSG01/07A/A01-002
ESTIMATE OF COUPLING ALONG THE SUBDUCTING PLATE BOUNDARY AROUND THE JAPANESE ISLANDS BASED ON A NEW INVERSION METHOD
Honglin JIN, Teruyuki KATO, Shin'ichi MIYAZAKI, Muneo HORI

0930 JSG01/07A/A01-003
SECULAR CRUSTAL DEFORMATION IN CENTRAL HONSHU ARC, JAPAN, DEDUCED FROM WAVELETANALYSIS OF GPS TIME-SERIES DATA, AND ITS SEISMOTECTONIC IMPLICATIONS
Kaoru MIYASHITA, Jianxin LI, Vijay Kumar KATHAMANA, Takahiko SUZUKI

0945 JSG01/07A/A01-004
ACTIVE FAULT SEGMENTS AND BLOCK MOVEMENT IN NORTH CHINA
Caijun XU, Zhicai LI, Yanxing LI

1000 JSG01/07A/A01-005
JOINT INVERSION OF GPS VELOCITY AND OBSERVED GRAVITY FOR ACTIVE FAULT SEGMENTS IN SICHUAN-YUNNAN RHOMBUS BLOCK
Zhicai LI, Caijun XU

1015 JSG01/07A/A01-006
AN IMPROVED APPROACH FOR CALCULATING THE SURFACE STRAIN RATES FROM GEODETIC NETWORKS WITH APPLICATION TO TAIWAN
Ya Ju HSU, Mark SIMONS, Shui-Beih YU

1030 BREAK

1050 JSG01/07A/A01-007
INTERSEISMIC CRUSTAL DEFORMATION IN THE TAIWAN PLATE BOUNDARY ZONE (1993-1999)
Shui-Beih YU, Long-Chen KUO, Ya-Ju HSU, Horng-Yue CHEN

1105 JSG01/07A/A01-008
CRUSTAL DEFORMATION IN EASTERN TURKEY CONSTRAINED BY GLOBAL POSITIONING SYSTEM MEASUREMENTS BETWEEN 1992 AND 2002
Mehmet Emin AYHAN, Bahadir AKTUG, Mustafa OCAK, Coskun DEMIR, Onur LENK, Robert REILINGER

1120 JSG01/07A/A01-009
MEDITERRANEAN SEA LEVEL VARIATIONS, 1985-2002: ALTIMETRY VERSUS TIDE GAUGE DATA
Isabel VIGO, David GARCIA, Benjamin Fong CHAO

1135 JSG01/07A/A01-010
GUADALUPE ISLAND GPS PRELIMINARY RESULT: IS THE PACIFIC PLATE RIGID?
Jose Javier GONZALEZ-GARCIA, Joachim GENRICH, Linette PRAWIRODIRDJO, Duncan AGNEW, Yehuda BOCK, Ken HUDNUT

1150 JSG01/07A/A01-011
VISCOELASTIC DEFORMATIONS DURING A SEISMIC CYCLE AND OVER CYCLES AROUND A SUBDUCTION ZONE - SIMULATION FOR A REALISTIC SNRVEI EARTH
Shuhei OKUBO, Jun'ichi OKUNO, Yoshiyuki TANAKA

1205 JSG01/07A/A01-012
POSTSEISMIC DEFORMATION MODELING OF THE 1992 LANDERS, CALIFORNIA, EARTHQUAKE
Yuehua ZENG, Yongge WAN, Zhengkang SHEN

JSH01 **Monday, July 7 AM**

THE REMOTE SENSING OF THE CRYOSPHERE (IAHS [ICSI, ICRS], IAMAS, IAPSO)

Location: Site C, Room 27

Convener: R. Armstrong
Co-Conveners: E. Brun, J. Dowdeswell, M. Tranter
Presiding Chair: J. Dowdeswell

GLACIERS AND SEA ICE

0940 JSH01/07A/C27-001

FORM AND FLOW OF ARCTIC ICE CAPS: REMOTE-SENSING INVESTIGATIONS FROM AIRCRAFT AND SATELLITES
Julian A. DOWDESWELL

1000 JSH01/07A/C27-002

APPLICATION OF ASTER IMAGES TO ESTIMATE GLACIER SYSTEM CHANGES IN THE CENTRAL TIEN SHAN DURING THE SECOND HALF OF THE 20TH CENTURY
Tatiana Y. KHROMOVA, Mark B. DYURGEROV, Roger G. BARRY

1020 JSH01/07A/C27-003

DISTRIBUTION OF CRYOCONITE ON THE SURFACE OF A GLACIER DERIVED FROM A LANDSAT TM IMAGE
Nozomu TAKEUCHI, Reginald R. MUSKETT

1040 BREAK

1140 JSH01/07A/C27-004

ANALYSIS OF ASTER AND PANCHROMATIC IMAGES FOR SURFACIAL CHARACTERISTICS OF THE GANGOTRI GLACIER, GARHWAL HIMALAYA, INDIA
Syed Iqbal HASNAIN, Sarfaraz AHMAD, Meenakshi YADAV

1200 JSH01/07A/C27-005

APPLICATIONS OF SEA-ICE MOTION AND DEFORMATION DERIVED FROM SATELLITE DATA
Antony K. LIU, Yunhe ZHAO

1220 JSH01/07A/C27-006

IMPROVING THE NEAR-REAL TIME QUIKSCAT/SEAWINDS SEA-ICE EDGE
Joerg HAARPAINTNER, David G. LONG, Mike L. VAN WOERT

JSM10 **Monday, July 7 AM**

CRYOSPHERE-CLIMATE INTERACTIONS (IAMAS [ICCL, ICPM], IAPSO, IAHS)

Location: Site B, Room 23

Convener: S. O'Farrell
Co-Conveners: T. Lachlan-Cope, E.M. Morris, J. Ukita, H.H. Hellmer
Presiding Chair: J. Ukita

THE CRYOSPHERE, SNOW, ICE SHEET MASS BALANCE AND ICE CORES

0900 JSM10/07A/B23-001

THE WORLD CLIMATE RESEARCH PROGRAMME (WCRP) CLIMATE AND CRYOSPHERE PROJECT (CLIC): A GLOBAL INITIATIVE
Barry E. GOODISON, Ian ALLISON, Roger G. BARRY, Chad DICK, Vladimir RYABININ

0940 JSM10/07A/B23-002

HISTORICAL TRENDS IN LAKE ICE COVER IN CANADA
Claude R. DUGUAY

1000 JSM10/07A/B23-003

RELATIONSHIPS BETWEEN SPATIAL PATTERNS OF SNOW WATER EQUIVALENT AND SYNOPTIC SCALE TROPOSPHERIC CIRCULATION FOR CENTRAL NORTH AMERICA 1978 - 2001
Chris P. DERKSEN, Chris P. DERKSEN, Ellsworth F. LEDREW, Anne E. WALKER, Barry E. GOODISON

1020 JSM10/07A/B23-004

INFLUENCE OF SNOW PROCESSES ON SURFACE EXCHANGE OF MASS AND ENERGY
Michael LEHNING, Perry BARTELT, Thomas EXNER, Ingo Meirolt MAUTNER, Norbert RADERSCHALL, Sergey SOKRATOV

1040 BREAK

1100 JSM10/07A/B23-005

SURFACE PROCESSES AND ICE SHEET MASS BALANCE
Elizabeth M. MORRIS

1140 JSM10/07A/B23-006

CHARACTERISTICS OF PRESENT CLIMATIC CHANGE RECORDED BY MALAN ICE CORE CENTRAL QINGHAI-TIBETAN PLATEAU
You-Qing WANG, Tandong YAO, Ninglian WANG, Jianchen PU, Keqin DUAN, Weizhen SUN

1200 JSM10/07A/B23-007

SEASONAL DIFFERENCES OF FRESH SNOW CHEMISTRY FROM MT. EVEREST: IMPLICATIONS FOR ICE CORE DATING
Shichang KANG, Paul A. MAYEWSKI, Dahe QIN, Junying SUN, Sharon A. SNEED

JSM14 **Monday, July 7 AM**

DYNAMICS AND PREDICTABILITY OF SEVERE WEATHER EVENTS (IAMAS [ICDM, ICCP], IAHS)

Location: Site A, Room 5

Conveners: D. Hudak, M.V. Kurgansky, F. Prodi, Y. Asuma
Presiding Chairs: Y. Asuma, Z. Kawasaki

0915 JSM14/07A/A05-001

Invited

OVERVIEW OF THORPEX: A GLOBAL ATMOSPHERIC RESEARCH PROGRAM
Melvyn Allen SHAPIRO, Alan J. THORPE

0950 JSM14/07A/A05-002

Invited

CANADIAN WEATHER RESEARCH PROGRAM: TRANSFER FROM RESEARCH TO OPERATIONS
James David ABRAHAM

1025 JSM14/07A/A05-003

ON STEADY-STATE PROPERTIES AND STATISTICAL DISTRIBUTION OF TORNADO-LIKE VORTICES IN THE ATMOSPHERE
Michael V. KURGANSKY

1040 JSM14/07A/A05-004

SIMULATION EXPERIMENT OF TORNADO ASSOCIATED WITH SUPERCELL USING THECLOUD RESOLVING STORM SIMULATOR
Kazuhisa TSUBOKI, Atsushi SAKAKIBARA

1055 BREAK

1115 JSM14/07A/A05-005

RECENT STUDIES ON THE DYNAMICS OF LINE SQUALLS IN WEST AFRICA USING SATELLITE DATA
Simon Oyediran OJO

1130 JSM14/07A/A05-006

CONVECTIVE ACTIVITY AND LOCAL CIRCULATION OBSERVED AT SERPONG, WEST JAWA, INDONESIA
Ryuzo ARAKI, Manabu D. YAMANAKA, Fumie MURATA, Hiroyuki HASHIGUCHI, Tien SRIBIMAWATI, Mahally KUDSY, Findy RENGONO

1145 JSM14/07A/A05-007

A COMPREHENSIVE STUDY ON TROPICAL MESOSCALE CONVECTIVE SYSTEMS USING VHF AND UHF RADARS OVER A TROPICAL STATION
Kishore Kumar KARANAM, Atma Ram JAIN

1200 JSM14/07A/A05-008

NUMERICAL SIMULATION OF KANGNUNG HEAVY RAINFALL EVENT OCCURRED BY 'LUSA' DURING AUG. 30-31, 2002 WITH CRESS
Jai ho OH, Jeong-Hui KIM, Tae-Hun KIM, Kazuhisa TUSBOKI

1215 JSM14/07A/A05-009

SIMULATION OF A RECENT TROPICAL CYCLONE IN BAY OF BENGAL USING MM5 MODEL AND A COMPARITIVE STUDY OF DIFFERENT CUMULUS AND PBL SCHEMES
Venu G NAIR, Sijikumar S, Mohankumar K

JSM15 **Monday, July 7 AM**

SPECIAL NAKAYA-MAGONO CELEBRATION: THE GROWTH OF ICE CRYSTALS AND SNOW (IAMAS [ICCP, ICPM], IAHS)

Location: Site B, Room 18

Presiding Chairs: C. Knight, M. Kuhn, N. Maeno, Y. Fujiyoshi

0900 JSM15/07A/B18-001

Invited

MOLECULAR DYNAMICS SIMULATIONS OF ICE SURFACES AND ICE/WATER INTERFACES
Hiroki NADA, Yoshinori FURUKAWA

0930 JSM15/07A/B18-002

CAPACITANCE OF SOLID AND HOLLOW ICE CRYSTALS
Mihai CHIRUTA, Pao K. WANG

0945 JSM15/07A/B18-003

MASS FLUX AND RECRYSTALLIZATION OF SNOW CRYSTALS AGGREGATES AT THE MICROSTRUCTURAL LEVEL
Sergey A. SOKRATOV, Martin SCHNEEBELI

WEEK
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1000	JSM15/07A/B18-004
MONTE CARLO SIMULATION OF SNOWFLAKES Ken-ichi MARUYAMA, Yasushi FUJIYOSHI	
1015	JSM15/07A/B18-005
THE CLASSIFICATION OF ATMOSPHERIC ICE PARTICLES, A CRITICAL REVUE Roland LIST	
1030	BREAK
1045	JSM15/07A/B18-006
PATTERN FORMATION OF ICE CRYSTAL GROWN IN SUPERCOOLED WATER AND PERSPECTIVE FOR SPACE EXPERIMENTS Etsuro YOKOYAMA, Yoshinori FURUKAWA, Wataru SHIMADA	
1100	JSM15/07A/B18-007
OBSERVATIONS OF SNOW AND ICE CRYSTALS USING LOW-TEMPERATURE SCANNING ELECTRON MICROSCOPY Albert RANGO, William WERGIN, Richard ARMSTRONG, Edward JOSBERGER, James FOSTER, Eric ERBE, Christopher POOLEY	
1115	JSM15/07A/B18-008
ICE PARTICLE HABITS IN STRATIFORM CLOUDS Alexei KOROLEV, George A. ISAAC, John HALLETT	
1130	JSM15/07A/B18-009
THE ROLE OF ICE IN TROPICAL LIGHTNING Tsutomu TAKAHASHI	
1145	JSM15/07A/B18-010
SURFACE INSTABILITY OF ICICLES Naohisa OGAWA, Yoshinori FURUKAWA	

JSP06	Monday, July 7 AM
THE GLOBAL OCEAN OBSERVING SYSTEM (IAPSO, IAG, IOC)	
Location: Site B, Room 21	

Convener: P.-Y.L. Traon
Co-Conveners: G. Goni, W.D. Nowlin, H.-P. Plag
Presiding Chair: P.-Y.L. Traon

0900	JSP06/07A/B21-001
IMPROVING SATELLITE OCEAN COLOR DATA PROCESSING BY THE USE OF NEURAL NETWORKS : THE NAOC PROGRAM. Michel R. CREPON, Sylvie THIRIA, Annick BRICAUD, Antoine MANGIN, Roland DOERFFER, Frank FELL, Jesus MORALES, Dan CORNFORD	
0920	JSP06/07A/B21-002
HIGH RESOLUTION OCEAN SURFACE VECTOR WINDS W.Timothy LIU, Wenqing TANG	
0940	JSP06/07A/B21-003
AN OPERATIONAL BUOY NETWORK FOR CLIMATE SST Huai-Min ZHANG, Richard W. REYNOLDS, Thomas M. SMITH	
1000	JSP06/07A/B21-004
NEW GENERATION SEA SURFACE TEMPERATURE FOR GODAE Kawamura HIROSHI	
1030	JSP06/07A/B21-005
THE GODAE HIGH-RESOLUTION SEA SURFACE TEMPERATURE PILOT PROJECT Craig J. DONLON, Chelle L. GENTEMANN	
1050	BREAK
1120	JSP06/07A/B21-006
SEA SURFACE SALINITY IN THE TROPICAL PACIFIC AND THE ENSO OBSERVING SYSTEM Thierry DELCROIX, Michael MCPHADEN, Kentaro ANDO	
1140	JSP06/07A/B21-007
AQUARIUS/SAC-D AND SMOS: FUTURE ADDITIONS TO THE SATELLITE OCEAN OBSERVING SYSTEM TO MEASURE GLOBAL SEA SURFACE SALINITY AND STUDY THE COUPLING BETWEEN THE WATER CYCLE, OCEAN CIRCULATION AND CLIMATE Gary S.E. LAGERLOEF, Jordi FONT, Chester KOBLINSKY, Raul COLOMB	

JSP11	Monday, July 7 AM
GEOPHYSICAL RISK AND VULNERABILITY: THE POPULATION-HAZARD INTERACTION (IAPSO, IAGA, IAHS, IAMAS, IASPEI, IAVCEI)	
Location: Site A, Room 10	

Convener: T. Beer
Co-Conveners: G. Heiken, A. Ismail-Zadeh, V. Gusiakov, A.W. Jayawardena, C. Yong, D. Boteler, E. Kontar, J. Schneider, W.H. Hooke
Presiding Chair: R. Singh

0900	JSP11/07A/A10-001	Invited
GEOPHYSICAL HAZARD AND HUMAN VULNERABILITY Tom BEER		
0930	JSP11/07A/A10-002	
DRASTIC: A SYSTEMATIC APPROACH FOR GROUNDWATER VULNEARLILITY MAPPING Sanjeev KUMAR, Shakeel AHMED, Shikha RAJPUT		
1000	JSP11/07A/A10-003	
NONLINEAR GROWTH OF CUMULATIVE LOSSES FROM DISASTERS IS COMPATIBLE WITH THE CONCEPTION OF SUSTAINABLE DEVELOPMENT OF SOCIETY Mikhail V. RODKIN		

1030	BREAK
1050	JSP11/07A/A10-005
IMPACT OF TRAFFIC ON THE AIR QUALITY OF THE CITY OF BANGKOK AND ITS APPLICATION TO CLIMATE CHANGE IMPACT ASSESSMENT IN THAILAND Suwannee ADSAVAKULCHAI	

1110	JSP11/07A/A10-006
CERES-WHEAT MODEL APPLICATION UNDER CLIMATE CHANGE CONDITIONS OVER I. R. OF IRAN Sohaila JAVANMARD, Ali KIANI, Javad BODAGHJAMALI	

1130	JSP11/07A/A10-007	Invited
GEOMAGNETIC HAZARD RESEARCH IN CANADA Lawrence Richard NEWITT, Larisa TRICHTCHENKO, David H. BOTELER		

1200	JSP11/07A/A10-008
DEGRADATION OF QUIET MAGNETIC ACTIVITY AND ITS IMPACT ON HUMAN CONDUCTIVITY Tamara GULYAEVA	

1220	JSP11/07A/A10-009
DIURNAL DYNAMICS OF RATS RESISTANCE TO HYPOXIA DURING VARIOUS GEOMAGNETIC ACTIVITY Youry P. SIZOV, Maryam L. KHACHATURYAN, Mikhail M. TEJBLUM	



G02	Monday, July 7 AM
ADVANCED SPACE TECHNOLOGY. MEETING OF IAG SECTION II	
Location: Site C, Room 25	

Presiding Chairs: K.-H. Ilk, Y. Fukuda

GRAVITY FIELD / PLANETARY INSTRUMENTS	
0900	G02/07A/C25-001
CHAMP GLOBAL GRAVITY FIELD RECOVERY – STATUS IN SATELLITE – ONLY AND COMBINED MEAN FIELD SOLUTION Christoph REIGBER, Peter SCHWINTZER, Richard STUBENVOLL, Rolf KOENIG, Karl-Hans NEUMAYER, Franz BARTHELMES, Georges BALMINO, Richard BIANCALE, Jean-Michel LEMOINE, Sylvain LOYER, Felix PEROSANZ	
0920	G02/07A/C25-002
GRAVITY FIELD RECOVERY FROM GRACE DATA AT GFZ POTSDAM Christoph REIGBER, Roland SCHMIDT, Frank FLECHTNER, Rolf KOENIG, Ulrich MEYER, Karl-Hans NEUMAYER, Peter SCHWINTZER, Sheng Yuan ZHU	
0940	G02/07A/C25-003
GRAVITY FIELD TEMPORAL VARIATIONS FROM TWO YEARS OF CHAMP MISSION Richard BIANCALE, Jean-Michel LEMOINE, Felix PEROSANZ, Sylvain LOYER	
0955	G02/07A/C25-004
ABSOLUTE GRAVIMETRY IN THE FENNOSCANDIAN LAND UPLIFT AREA: MONITORING OF TEMPORAL GRAVITY CHANGES FOR GRACE Juergen MUELLER, Ludger TIMMEN, Heiner DENKER	

1010 G02/07A/C25-005
GRAVITY FIELD RECOVERY AND VALIDATION BY ANALYSIS OF SHORT ARCS OF A SATELLITE-TO-SATELLITE TRACKING EXPERIMENT AS CHAMP AND GRACE
Karl Heinz ILK, Martin FEUCHTINGER, Torsten MAYER-GUERR

1030 G02/07A/C25-006
APPLICATION OF SPACE GRAVITY SPECTROSCOPY TO CHAMP, GRACE AND GOCE
Erik W. GRAFAREND, Gerrit AUSTEN, Petar MARINKOVIC, Tilo REUBELT

1045 BREAK

1100 G02/07A/C25-007
CALIBRATION/VALIDATION OF GOCE DATA BY TERRESTRIAL TORSION BALANCE OBSERVATIONS
Gyula TOT, J. ÁDÁM, L. FÖLDVÁRY, I.N. TZIAVOS, H. DENKER

1115 G02/07A/C25-008
KINEMATIC PRECISE ORBIT DETERMINATION FOR GRAVITY FIELD DETERMINATION
Drazen SVEHLA, Markus ROTHACHER

1130 G02/07A/C25-009
EFFICIENT STOCHASTIC ORBIT MODELING TECHNIQUES USING LEAST SQUARES ESTIMATORS
Adrian JAEGGI, Gerhard BEUTLER, Urs HUGENTOBLE

1145 G02/07A/C25-010
SATELLITE GRAVITY FOR OFFSHORE OIL AND GAS EXPLORATION
Minghua ZHANG, Jiaqiang ZHANG, Gang CAI, Lin WU

1200 G02/07A/C25-011
ANTICIPATED ACCURACY OF LUNAR GRAVITY FIELD MODEL FROM RSAT/VRAD MISSION
Koji MATSUMOTO, Kosuke HEKI, Hideo HANADA, Seiitsu TSURUTA, Yusuke KONO, Nobuyuki KAWANO, Takahiro IWATA, Noriyuki NAMIKI, David D. ROWLANDS

1215 G02/07A/C25-012
NEIGE: A GEODETIC NETWORK ON MARS, TO STUDY THE INTERNAL STRUCTURE OF THE PLANET, AND THE BALANCE OF VOLATILES.
Jean-Pierre BARRIOT, Julien VIENNE, Veronique DEHANT, Marie YSEBOODT, Pascal ROSENBLATT, Julien DURON, William FOLKNER

1230 G02/07A/C25-013
RESULTS OF THE CRITICAL DESIGN OF RSAT/VRAD MISSION INSTRUMENTS ON SELENE SUB-SATELLITES RSTAR/VSTAR FOR SELENODESY
Takahiro IWATA, Takeshi SASAKI, Tatsushi IZUMI, Yusuke KONO, Hideo HANADA, Nobuyuki KAWANO, Fuyuhiko KIKUCHI

1245 G02/07A/C25-014
APPLICATION OF PZT TELESCOPE TO INSITU LUNAR ORIENTATION MEASUREMENT (ILOM)
Hideo HANADA, Kousuke HEKI, Hiroshi ARAKI, Seiitsu TSURUTA, Seiichi TAZAWA, Kazuyoshi ASARI, Tsuneya TSUBOKAWA, Koji MATUMOTO, Nobuyuki KAWANO, Yusuke KONO, Taihei YANO



GAI.04 Monday, July 7 AM

LIGHTNING-INDUCED TRANSIENT PROCESSES IN THE MIDDLE AND UPPER ATMOSPHERE AND THEIR IMPACT ON THE EARTH SYSTEM
Location: Site A, Room 8

Convener: H. Fukunishi
Co-Conveners: M. Fuellekrug, D.D. Sentman
Presiding Chairs: D.D. Sentman, H. Fukunishi

0900 GAI.04/07A/A08-001 Invited
REALTIME GLOBAL MAPPING OF LIGHTNING USING WIDELY SPACED VLF RECEIVERS
Craig J. RODGER, Richard L. DOWDEN

0925 GAI.04/07A/A08-002
ULF/ELF INTERFEROMETRY
Martin FUELLEKRUG

0940 GAI.04/07A/A08-003
RELATIONSHIP BETWEEN GLOBAL LIGHTNING ACTIVITIES AND CHANGES IN THE SPECTRAL POWERS IN THE SCHUMANN RESONANCE BANDS
Mitsuteru SATO, Hiroshi FUKUNISHI

0955 GAI.04/07A/A08-004 Invited
SPRITE-LIGHTNING STATISTICS, CLOUDTOP TEMPERATURES AND THE MESOSPHERIC BREAKDOWN ELECTRIC FIELD
Fernanda T. SÃO SABBAS

1015 GAI.04/07A/A08-005
OBSERVATION OF SPRITES OVER THE SEA OF JAPAN AND CONDITIONS FOR LIGHTNING-INDUCED SPRITES IN WINTER
Masashi HAYAKAWA, T. NAKAMURA, Y. HOBARA, E. WILLIAMS

1030 BREAK

1050 GAI.04/07A/A08-006 Invited
LOW-LIGHT VIDEO AND ELF OBSERVATIONS OF SPRITES ABOVE HAITI/DOMINICAN REPUBLIC THUNDERSTORMS
Victor PASKO, Steve CUMMER, Mark STANLEY, John MATHEWS, Umran INAN, Troy WOOD, Earle WILLIAMS, Robert BOLDI, Mitsuteru SATO, Yukihiko TAKAHASHI

1110 GAI.04/07A/A08-007 Invited
GIGANTIC JETS BETWEEN A THUNDERCLOUD AND THE E-LAYER IONOSPHERE*
Rue-Ron HSU, H.T. SU, Alfred B. CHEN, W.S. HSIAO, Y.C. WANG, L.C. LEE, M. SATO, H. FUKUNISHI

1130 GAI.04/07A/A08-008 Invited
TELESCOPIC IMAGING OF UPPER ATMOSPHERIC LIGHTNING-RELATED STREAMERS AND DIFFUSE GLOW
Elizabeth A. GERKEN, Umran S. INAN

1150 GAI.04/07A/A08-009 Invited
SPRITES, ELVES AND OTHER TRANSIENT LUMINOUS EVENTS (TLES) OBSERVED FROM THE SPACE SHUTTLE COLUMBIA DURING THE MEDITERRANEAN ISRAELI DUST EXPERIMENT
Yoav Y. YAIR

GAI.05-Posters Monday, July 7 AM

DATA ASSIMILATION TECHNIQUES FOR THE IONOSPHERE-THERMOSPHERE-MAGNETOSPHERE SYSTEM
Location: Site D

Convener: R.W. Schunk

0830-017 GAI.05/07A/D-001 Poster
GLOBAL ASSIMILATION OF IONOSPHERIC MEASUREMENTS (GAIM)
Robert W. SCHUNK, Ludger SCHERLIESS, Jan J. SOJKA, Donald C. THOMPSON, David N. ANDERSON, Mihail CODRESCU, Cliff MINTER, Timothy J. FULLER-ROWELL, Roderick A. HEELIS, Marc HAIRSTON, Bruce M. HOWE

0830-018 GAI.05/07A/D-002 Poster
HE+ DENSITY ISS-B SATELLITE DATA IN EMPIRICAL AND STATISTICAL TOPSIDE IONOSPHERE SIMULATION
Larissa SIDOROVA

0830-019 GAI.05/07A/D-003 Poster
SPECIFICATION AND PREDICTION OF DYNAMIC PROCESS IN IONOSPHERE
Jian-shan GUO, Jiankui SHI, She-ping SHANG, Manlian ZHANG, Xigui LUO, Hong ZHENG

0830-020 GAI.05/07A/D-004 Poster
PLASMA TEMPERATURES FROM ACTIVE
Ludmila TRISKOVA, Vladimir TRUHLIK, Jan SMILAUER

0830-021 GAI.05/07A/D-005 Poster
THE ASSIMILATION OF GROUND AND SPACE GPS TEC MEASUREMENTS IN THE GLOBAL ASSIMILATIVE IONOSPHERE MODEL (GAIM)
George A. HAJJ, Xiaoqing PI, Gary ROSEN, Paul STRUAS, Chunming WANG, Brian WILSON

0830-022 GAI.05/07A/D-006 Poster
ESTIMATION OF IONOSPHERIC DYNAMICAL DRIVERS USING A GLOBAL ASSIMILATIVE IONOSPHERIC MODEL
Xiaoqing PI, Chunming WANG, George A. HAJJ, Gary ROSEN, Brian D. WILSON

GAI.05 Monday, July 7 AM

WHAT ARE THE STRUCTURES IN THE MAGNETOTAIL, WHY ARE THEY THERE, AND HOW DO THEY INFLUENCE ITS DYNAMICS
Location: Site A, Room 6

Convener: T. Mukai
Co-Conveners: J.-A. Sauvaud, L.C. Lee, S. Ohtani
Presiding Chairs: J.-A. Sauvaud, T. Mukai

0900 GAI.05/07A/A06-001
PLASMA CONVECTION IN THE Y-Z CROSS-SECTION OF THE MAGNETOTAIL
Kiyoshi MAEZAWA

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IUGG2003

- 1030 GAV.04/07A/A11-004 Invited**
NET FIELD-ALIGNED CURRENT SYSTEMS AND THEIR EFFECTS ON THE GROUND
Toshihiko IYEMORI, Shin'ya NAKANO, Satoru YAMASHITA
- 1100 GAV.04/07A/A11-005**
MODELLING OF POLAR FIELD-ALIGNED CURRENT SYSTEMS
Peter STAUNING, Dan WEIMER, Vladimir PAPITASHVILI, Freddy CHRISTIANSEN
- 1120 GAV.04/07A/A11-006**
MAGNETIC SIGNATURE OF MAGNETOSPHERIC SOURCES IN CHAMP DATA
Judith SCHWARTZ, Aude CHAMBODUT, Hermann LUEHR, Mioara MANDEA
- 1140 GAV.04/07A/A11-007**
PRELIMINARY CORRELATIONS OF SATELLITE AND GROUND MAGNETIC VARIATIONS TO ESTIMATE SCALE-LENGTHS OF INDUCING FIELDS
Nandini NAGARAJAN, Manoj C., Stefan MAUS
- 1200 GAV.04/07A/A11-008**
GLOBAL SCALE IONOSPHERIC IRREGULARITIES ASSOCIATED WITH THUNDERSTORM ACTIVITY
Sergey A. PULINETS, Viktor H. DEPUYEV, Amando C. LEYVA

GAV.04-Posters Monday, July 7 AM

INTERNATIONAL DECADE OF GEOPOTENTIAL FIELD RESEARCH: FIRST FIVE YEARS - ADVANCES IN THE UNDERSTANDING THE GEOMAGNETIC FIELD (SEDI)

Location: Site D

- 0830-141 GAV.04/07A/D-001 Poster**
MODELING OF THE GEOMAGNETIC FIELD FROM THE JERK ASSUMPTION
Anahit Hovhannes SIMONYAN



HS02-Oral-Posters Monday, July 7 AM

WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)

Location: Site C, Room 24

Convener: G. Bloesch
Co-Conveners: K. Musiak, D. Rosbjerg, S. Franks
Presiding Chair: S. Franks

- 0900 HS02/07A/C24-001OP Oral-Poster**
IMPACTS OF ENVIRONMENTAL CHANGE AND POPULATION GROWTH ON THE WATER QUALITY AND WATER AVAILABILITY IN INDIA
Shadananan K. NAIR
- 0904 HS02/07A/C24-002OP Oral-Poster**
ESTIMATION OF POTENTIAL WATER RESOURCES IN THE LOWER MEKONG RIVER BASIN
NMNS Bandara NAWARATHNA, So KAZAMA, Masaki SAWAMOTO
- 0908 HS02/07A/C24-003OP Oral-Poster**
CLIMATE CHANGE AND WATER RESOURCES VULNERABILITY IN HEAD AREA OF CHANGJIANG AND HUANGHE
Shao-feng JIA, Hua-yun YAN, Run-jie LI
- 0912 HS02/07A/C24-004OP Oral-Poster**
AN ESTIMATION OF AVAILABLE WATER RESOURCES
Boris BERAKOVIC, Marija BERAKOVIC, Ksenija CESAREC
- 0916 HS02/07A/C24-005OP Oral-Poster**
CHANGEMENTS CLIMATIQUES, RESSOURCES EN EAU ET SECHERESSES AU MAROC
Mohammed-Said KARROUK
- 0920 HS02/07A/C24-006OP Oral-Poster**
WORLD MAP OF HYDROGEOLOGICAL CONDITIONS AND GROUNDWATER FLOW
Roald Gamidovich DZHAMALOV, Igor Semenovich ZEKTSER
- 0924 HS02/07A/C24-007OP Oral-Poster**
ASSESSING THE SUSTAINABILITY OF URBAN WATER RESOURCES
Matthias EISWIRTH
- 0928 HS02/07A/C24-008OP Oral-Poster**
ASSESSING VULNERABILITY OF WATER RESOURCES TO CLIMATE CHANGE IN MIDWEST
Hua XIE, Wayland J. EHEART

- 0932 HS02/07A/C24-009OP Oral-Poster**
THE BASIC FEATURES OF TRANSFORMATION OF A REGIONAL CLIMATIC FIELD OF PRECIPITATION ON UKRAINE UNDER INFLUENCE OF GLOBAL WARMING
Volodymyr M. VOLOSHCHUK, Svetlana G. BOYCHENKO
- 0936 HS02/07A/C24-010OP Oral-Poster**
FEATURES OF WATER RESOURCES SYSTEMS IN GEORGIA
Konstantine Kote BZIAVA, David Dato GUBELADZE
- 0940 HS02/07A/C24-011OP Oral-Poster**
STREAMFLOW VARIATION OF FOREST COVERED CATCHMENTS
Zoltán GRIBOVSKÍ, Mihály KUČSARA, Péter KALICZ
- 0944 HS02/07A/C24-012OP Oral-Poster**
FINGERPRINTING CLIMATE CHANGE DRIVEN DROUGHTS IN WESTERN CANADA
Lawrence Chima NKEMDIRIM
- 0948 HS02/07A/C24-013OP Oral-Poster**
THE CONCEPT OF MODERN ARID ZONES OF HYDROGEOLOGY OF CENTRAL ASIA AND ITS PROBLEM
Nasirdjan -TAKHIROV, Shukhrat Saifullaevich RADJABOV
- 0952 HS02/07A/C24-014OP Oral-Poster**
THE GLOBAL WATER SYSTEM PROJECT OF IGBP*, IHDP*, WCRP*, DIVERSITAS
Holger H. HOFF, Carlo JAEGER, Denis LETTENMAIER, Christian LEVEQUE, Harry LINS, Michel MEYBECK, Madiodio NIASSE, Charles VOROSMARTY
- 0956 HS02/07A/C24-015OP Oral-Poster**
MODELLING OF WATER AVAILABILITY IN GRASSLAND ECOSYSTEMS OF ARID ZONE DELTA PLAINS
Natalia V. PENKOVA, V.P. SINGH, V.A. KHAYDAROVA, N.M. NOVIKOVA
- 1000 HS02/07A/C24-016OP Oral-Poster**
CLIMATIC VARIABILITY AND LAND RESOURCES VULNERABILITY IN THE FORCADOS RIVER ESTUARY
Mayowa FASONA

1004 DISCUSSION

1015 BREAK

HS02 Monday, July 7 AM

WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)

Location: Site C, Room 24

Presiding Chair: S. Franks

- 1045 HS02/07A/C24-001**
SMALL HYDROLOGICAL BASINS IN DELTA REGIONS AND THEIR VULNERABILITY TO CLIMATIC CHANGE: THE CASE OF THE MARK-VLIET BASIN
Victor Jan WITTER
- 1100 HS02/07A/C24-002**
WATER PROBLEMS & SUSTAINABILITY IN THE NORTH CHINA
Jun XIA
- 1115 HS02/07A/C24-003**
UTILIZATION OF WATER RESOURCES AND ITS EFFECTS ON HYDROLOGICAL ENVIRONMENT OF TARIM RIVER BASIN IN XINJIANG, CHINA
Changyuan TANG, Shizuo SHINDO, Xin LI, Jianyao CHEN
- 1130 HS02/07A/C24-004**
WATER RESOURCES IN BULGARIA UNDER CLIMATE VARIABILITY AND CHANGE
Vesselin A. ALEXANDROV, Marin GENEV
- 1145 HS02/07A/C24-005**
IMPLICATIONS OF CLIMATIC VARIABILITY AND CLIMATE CHANGE ON WATER RESOURCES AVAILABILITY AND WATER RESOURCES MANAGEMENT IN WEST AFRICA.
Simon Oyediran OJO, Feyi ONI, Olatunde OGUNKUNLE
- 1200 HS02/07A/C24-006**
STRUCTURE OF ECOLOGICAL INDICATORS AND INDEXES FOR GROUNDWATER SUSTAINABLE DEVELOPMENT
Anna P. BELOUSOVA
- 1215 HS02/07A/C24-007**
ASSESSMENT OF THE VULNERABILITY OF WATER RESOURCES SYSTEM IN CHINA
Lihua XIONG, Shenglian GUO

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HS03**Monday, July 7 AM****WEATHER RADAR INFORMATION AND DISTRIBUTED
HYDROLOGICAL MODELING (ICSW)**

Location: Site C, Room 26

Conveners: Y. Tachikawa, B.E. Vieux, K.P. Georgakakos, E. Nakakita
Presiding Chair: B.E. Vieux**ASSESSMENT OF UNCERTAINTY IN DISTRIBUTED
HYDROLOGICAL MODELING****0900 HS03/07A/C26-001 Invited**A METHODOLOGY FOR ASSESSING THE UTILITY OF DISTRIBUTED MODEL
FORECAST APPLICATIONS IN AN OPERATIONAL ENVIRONMENT

Konstantine P. GEORGAKAKOS, Theresa M. CARPENTER

0930 HS03/07A/C26-002PROPAGATION OF PRECIPITATION UNCERTAINTY THROUGH FLOOD
FORECASTING MODEL

Shreedhar MASKEY, Vincent GUINOT, Roland K. PRICE

0945 HS03/07A/C26-003COMBINING PHYSICALLY BASED AND CONCEPTUAL APPROACHES IN THE
DEVELOPMENT AND PARAMETERIZATION OF A DISTRIBUTED SYSTEM

Victor I. KOREN, Seann REED, Michael SMITH, Ziya ZHANG

1000 HS03/07A/C26-004IMPROVING A PRIORI ESTIMATES OF HYDRAULIC PARAMETERS IN A
DISTRIBUTED ROUTING MODEL VIA VARIATIONAL ASSIMILATION OF LONG-
TERM STREAMFLOW DATA

Dong-Jun SEO, Victor KOREN, Seann REED

1015 HS03/07A/C26-005DISTRIBUTED MODEL FLOW SENSITIVITY TO UNCERTAINTY IN RADAR
RAINFALL INPUT

Theresa M. CARPENTER, Konstantine P. GEORGAKAKOS

1030 BREAK**1045 HS03/07A/C26-006**DISTRIBUTED HYDROLOGICAL MODELING IN THE YATA WATERSHED USING
THE WEP MODEL AND PROPAGATION OF RAINFALL ESTIMATION ERROR

Yangwen JIA, Tsuyoshi KINOCHI, Junichi YOSHITANI

1100 HS03/07A/C26-007THE EFFECTS OF RADAR-DERIVED RAINFALL UNCERTAINTIES ON
FORECASTS FROM A DISTRIBUTED HYDROLOGIC MODEL

Jonathan J. GOURLEY, Baxter E. VIEUX

1115 HS03/07A/C26-008REAL-TIME ASSIMILATION OF RADAR-BASED PRECIPITATION DATA AND
STREAMFLOW OBSERVATIONS INTO A DISTRIBUTED HYDROLOGIC MODEL

DONG-JUN SEO, Victor KOREN, Neftali CAJINA

1130 HS03/07A/C26-009IMPACT OF ONLINE CALIBRATION OF RADAR-MEASURED RAINFALL IN
HYDROLOGICAL FORECASTING USING DISTRIBUTED HYDROLOGICAL
MODEL

Minjiao LU, Norio HAYAKAWA

1145 HS03/07A/C26-010A NEW COMPOSITE APPROACH OF PHYSICAL AND GEOSTATISTICAL
ASPECTS TO GROUNDWATER MODELING

Toshio HAMAGUCHI

HS04**Monday, July 7 AM****METHODOLOGIES FOR RISK ASSESSMENT OF WASTE
WATER RE-USE ON GROUNDWATER QUALITY (ICWQ)**

Location: Site C, Room 30

Convener: J. Steenvoorden
Presiding Chair: J. Steenvoorden**KEY NOTE LECTURES****0910 HS04/07A/C30-001**AGRICULTURAL USE OF TREATED WASTEWATER: THE NEED FOR A
PARADIGM SHIFT IN SANITATION & TREATMENT

Jules B. VAN LIER

1005 HS04/07A/C30-002ASSESSMENT METHOD FOR RISK OF GROUNDWATER QUALITY
DETERIORATION WHERE RECLAIMED WATER IS STORED IN AQUIFERS

Peter J. DILLON, Russell MARTIN, Simon TOZE, Paul PAVELIC, Karen

RATTRAY, Ray CORRELL, Ros MILLER

1130 HS04/07A/C30-003FATE AND TRANSPORT OF ORGANIC CONSTITUENTS DURING SOIL-
AQUIFER TREATMENT LEADING TO INDIRECT POTABLE REUSE

Jorg Eckard DREWES

HW06**Monday, July 7 AM****ISOTOPE TRACERS IN WATER CYCLE MODELS (IAHS/ICT,
IAEA)**

Location: Site C, Room 31

Convener: J.J. McDonnell
Co-Conveners: P.K. Aggarwal, J.J. Gibson
Presiding Chair: J.J. Gibson**0900 INTRODUCTION****0910 HW06/07A/C31-001**HOW TO ESTIMATE THE MEAN RESIDENCE TIME OF WATER IN A
CATCHMENT? RESULTS FROM A MODEL COMPARISON AND THE
SIGNIFICANCE OF ISOTOPE RECORDS

Stefan UHLENBROOK, Falk SCISSEK

0930 HW06/07A/C31-002EXAMINATION OF MRT MODELING CONCEPT THROUGH A FIELD
MEASUREMENT OF SPATIAL VALIABILITY IN GRODUNWATER SEEPAGE
ISOTPIC COMPTIONSTaro UCHIDA, Shyusuke MIYATA, Yuko ASANO, Yuichi ONDA, Takahisa
MIZUYAMA**0950 HW06/07A/C31-003**EXAMINATION OF THE ASSUMPTIONS IN ISOTOPE-BASED HYDROGRAPH
SEPARATION: A VIRTUAL EXPERIMENT APPROACH

Jeffrey J. MCDONNELL, Markus WEILER

1030 HW06/07A/C31-004

A NEW TRANSFER FUNCTION BASED HYDROGRAPH SEPARATION MODEL

Kevin James MCGUIRE, Markus WEILER, Brian MCGLYNN, Jeff MCDONNELL

1050 BREAK**1110 HW06/07A/C31-005**STABLE ISOTOPIC COMPOSITIONS OF SUBSURFACE WATER AND WATER
VAPOR IN THE ATMOSPHERE AT FORESTED REGIONS

Maki TSUJIMURA, Yuichi ONDA, Risa SASAKI, Tadashi TANAKA

1130 HW06/07A/C31-006CONTINUOUS SOIL WATER ISOTOPE OBSERVATIONS AND MODELING
APPROACHES AT A FOREST METEOROLOGICAL EXPERIMENTAL SITE IN
GERMANY

Paul KOENIGER, Lutz JAEGER, Helmut MAYER, Christian LEIBUNDGUT

1150 HW06/07A/C31-007MINING LAKES AS GROUNDWATER DOMINATED HYDROLOGICAL SYSTEMS:
ASSESSMENT OF THE WATER BALANCE OF LAKE PLESSA 117 (LUSATIA,
GERMANY) BY USING ISOTOPE TRACERS AND SEEPAGE METER
MEASURINGSHilmar HOFMANN, Kay KNÖLLER, Dieter LESSMANN, Klaus JÖHNK, Uwe
GRUENEWALD, Brigitte NIXDORF**1210 HW06/07A/C31-008**BLACK-BOX MODELS FOR THE INTERPRETATION OF ISOTOPE DATA IN
DIFFERENT GROUND WATER SYSTEMS (MONO- AND BI-POROUS) TO
DETERMINE SOME HYDROLOGICAL PARAMETERS

Piotr MALOSZEWSKI

HW08**Monday, July 7 AM****PARAMETER ESTIMATION TECHNIQUES (IAHS/WMO
WORKING GROUP ON GEWEX WITH THE SUPPORT OF ICSW
AND ICASVR)**

Location: Site C, Room 28

Convener: J. Schaake
Co-Conveners: A. Hall, S.W. Franks, Q. Duan, H. Gupta, G.H. Leavesly
Presiding Chairs: Q. Duan, H. Gupta**DEVELOPMENT AND APPLICATION OF MODEL CALIBRATION
TECHNIQUES****0900 HW08/07A/C28-001 Invited**

ADVANCES IN AUTOMATIC CALIBRATION OF WATERSHED MODELS

Hoshin V. GUPTA, Soroosh SOROOSHIAN, Thorsten WAGENER, Jasper A.
VRUGT**0930 HW08/07A/C28-002**APPLICATIONS OF THE NEW REDUCED RANK SQUARE ROOT KALMAN
FILTER TO THE PROBLEM OF PARAMETER ESTIMATION IN HYDROLOGICAL
MODELS

Dimitri TREEBUSHNY

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0950	HW08/07A/C28-003
DEVELOPMENT OF A HYBRID GENETIC ALGORITHM (HGA) TRANSFER FUNCTION MODEL FOR RAINFALL-RUNOFF PARAMETER ESTIMATION Sohrab HAJJAM	
1010	HW08/07A/C28-004
EVALUATION OF PARAMETER CONSISTENCY IN THE TANK MODEL OPTIMIZATION Haruya TANAKAMARU	
1030	HW08/07A/C28-005
AUTOMATIC PARAMETER ESTIMATION FOR A DISTRIBUTED HYDROLOGICAL MODEL AND APPLICATION TO AN ALPINE WATERSHED Harald G. KUNSTMANN, Jan C. KRAUSE	
1050	BREAK
1110	HW08/07A/C28-006
ON ESTIMATING BASIN PARAMETERS FOR OPERATIONAL HYDROLOGICAL MODELLING Sandra G. GARCIA	
1130	HW08/07A/C28-007
PARAMETER ESTIMATION OF RAINFALL-RUNOFF MODELS USING THE EVOLUTION STRATEGY Yoichi FUJIHARA, Haruya TANAKAMARU, Takeshi HATA, Akio TADA	
1150	HW08/07A/C28-008
APPORT D'UN CRITERE A PAS VARIABLE AU CALAGE DES PARAMETRES D'UN MODELE JOURNALIER A PARTIR DE DONNEES ANNUELLES Antoine HREICHE, Claude BOCQUILLION, Wajdi NAJEM, Eric SERVAT, Alain DEZETTER	
1210	HW08/07A/C28-009
OPTIMIZATION OF SOIL HYDRAULIC PARAMETERS FROM IN-SITU DATA Kun YANG, Toshio KOIKE	



MC02	Monday, July 7 AM
TYPHOONS IN ASIA: THEIR UNIQUE FEATURES (ICDM) Location: Site B, Room 20	
Conveners: Y. Kurihara Co-Conveners: J.C.L. Chan Presiding Chairs: P.S. Chu, J. Matsumoto	
TYPHOON VARIABILITY	
0945	MC02/07A/B20-001
CLIMATOLOGICAL CONDITION OVER THE WESTERN NORTH PACIFIC BASIN Yoshio KURIHARA	
1005	MC02/07A/B20-002
INTERANNUAL VARIABILITY OF TROPICAL CYCLONE FREQUENCY OVER THE WESTERN NORTH PACIFIC DURING THE LATTER HALF OF THE 20TH CENTURY Michiaki YUMOTO, Tomonori MATSUURA	
1025	MC02/07A/B20-003
SEASONAL AND INTER-ANNUAL VARIATIONS OF TROPICAL CYCLONE APPROACHING INDOCHINA Hideaki SHOJI, Jun MATSUMOTO	
1045	BREAK
1105	MC02/07A/B20-004
INTERANNUAL VARIABILITY OF TROPICAL CYCLONE FREQUENCIES FROM AN ENSEMBLE CLIMATE SIMULATION WITH THE NCAR CCM3 Junichi TSUTSUI, Hideyuki KITABATA	
1125	MC02/07A/B20-005
A MECHANISM OF INTERDECADEAL VARIABILITY OF TROPICAL CYCLONE ACTIVITY OVER THE WESTERN NORTH PACIFIC Tomonori MATSUURA, Tomonori MATSUURA, Michiaki YUMOTO, Satoshi IIZUKA	
1145	MC02/07A/B20-006
DECADEAL VARIABILITY OF TROPICAL CYCLONE ACTIVITY OVER THE WESTERN NORTH PACIFIC Hsin Hsing CHIA, Pao-Shin CHU, Chet ROPELEWSKI	
1205	MC02/07A/B20-007
IMPACTS OF SST WARMING AND CO2 INCREASE ON TROPICAL CYCLONE FREQUENCY Jun YOSHIMURA, Masato SUGI	

MC05	Monday, July 7 AM
MIDDLE ATMOSPHERE SCIENCE (ICMA) Location: Site A, Room 9	
Presiding Chair: T. Hirooka	
0900	MC05/07A/A09-001
Invited STRUCTURE OF THE POLAR VORTEX AS REVEALED BY ILAS OBSERVATIONS OF MINOR-CONSTITUENTS AND METEOROLOGICAL DATA Hiroshi KANZAWA	
0930	MC05/07A/A09-002
Invited FINE SCALE STRUCTURES IN THE DYNAMICS AND THE CHEMISTRY OF THE POLARVORTEX: SIMULATIONS WITH THE CHEMICAL LAGRANGIAN MODEL OF THESTRATOSPHERE (CLAMS) Rolf MUELLER, Paul KONOPKA, Jens-Uwe GROOSS, Gebhard GUENTHER, Baerbel VOGEL, Hildegard STEINHORST, Daniel S. MCKENNA	
1000	MC05/07A/A09-003
Invited SEASONAL VARIATIONS IN CHEMICAL TRACERS IN THE UPPER TROPOSPHERE/LOWER STRATOSPHERE BASED ON HALOE OBSERVATIONS AND MODEL SIMULATIONS Mijeong PARK, William J. RANDEL, Douglas E. KINNISON, Rolando R. GARCIA, Wookap CHOI	
1030	BREAK
1100	MC05/07A/A09-004
Invited THE REANALYSIS FOR STRATOSPHERIC TRACE GAS STUDIES (RESTS) PROJECT Steven PAWSON	
1130	MC05/07A/A09-005
A COMPARISON OF ISENTROPIC TRANSPORT IN THE STRATOSPHERE Diane PENDLEBURY, Timothy J. DUNKERTON	
1150	MC05/07A/A09-006
STRATOSPHERIC CHEMISTRY MODELLING USING ERA-40 METEOROLOGICAL FIELDS Pascal SIMON, Franck LEFEVRE, Vincent-Henri PEUCH, Hubert TEYSSEDRE	
MC08	Monday, July 7 AM
FUTURE CHANGES IN GLOBAL AND REGIONAL CLIMATE (ICDCI) Location: Site B, Room 17	
Conveners: M.R. Allen, I.I. Mokhov Presiding Chairs: D. Frame, D. Sexton	
0930	MC08/07A/B17-001
THE EARLY CENTURY WARMING IN THE ARCTIC - A POSSIBLE MECHANISM Lennart BENGTSOON, Vladimir SEMENOV, Ola M. JOHANNESSEN	
1000	MC08/07A/B17-002
WHY DOES PRECIPITATION DECREASE INITIALLY IN TRANSIENT RESPONSE TO CO2 DOUBLING? Akira NODA, Kazuki YAMAGUCHI, Takao UCHIYAMA, Sachiko YAMAKI	
1015	MC08/07A/B17-003
ESTIMATING UNCERTAINTY IN THE RESPONSE TO DOUBLED CO2 USING A LARGE ENSEMBLE OF GCM VERSIONS David M.H. SEXTON, James MURPHY, David N. BARNETT, Mark J. WEBB	
1030	MC08/07A/B17-004
THE GLOBAL STATIONARY WAVE RESPONSE TO CLIMATE CHANGE IN A COUPLED GCM Mingfang TING, Renu JOSEPH, Paul J. KUSHNER	
1045	MC08/07A/B17-005
THE EFFECT OF AEROSOLS ON GLOBAL WARMING ESTIMATED FROM MULTI-CGCM RUNS AND MULTI-EMISSION SCENARIO RUNS Akira NODA, Takao UCHIYAMA, Sachiko YAMAKI	
1100	BREAK
1120	MC08/07A/B17-006
REGIONAL CLIMATE CHANGE PROJECTION OVER JAPAN IN WINTER DUE TO GLOBAL WARMING USING AN MRI-CGCM1/ REGIONAL CLIMATE MODEL NESTING SYSTEM Yasuo SATO, Kazuyo MURAZAKI, Hidetaka SASAKI, Seiji YUKIMOTO, Akira NODA, Ayako TAKEUCHI, Shinya KOBAYASHI	
1135	MC08/07A/B17-007
IMPACT OF POSSIBLE FUTURE CLIMATE ON COASTAL WINDS, STORM SURGES AND WAVE CONDITIONS IN THE NORTH SEA Hans VON STORCH, Frauke FESER, Arnt PFIZENMAYER, Burkhardt ROCKEL, Ralf WEISSE, Katja WOTH	
1150	MC08/07A/B17-008
SOUTH WEST AUSTRALIA PAST AND FUTURE RAINFALL TRENDS Bertrand Olivier TIMBAL	

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1205 MC08/07A/B17-009
 REGIONAL REGIMES WITH DROUGHT AND EXTREME WET CONDITIONS:
 POSSIBLE CHANGES IN XXI CENTURY FROM MODEL SIMULATIONS
 Igor I. MOKHOV, Jean-Louis DUFRESNE, Vyacheslav Ch. KHON, Herve LE
 TREUT, Vladimir A. TIKHONOV

MC12 Monday, July 7 AM
THE CLIMATE OF THE HOLOCENE (ICCI)
 Location: Site B, Room 19

Conveners: M. Mann, P. Jones, V. Masson-Delmotte
 Presiding Chair: V. Masson-Delmotte

0930 MC12/07A/B19-001 Invited
 CLIMATE, VEGETATION, AND CO₂ DYNAMICS IN THE HOLOCENE:
 EXPERIMENTS WITH CLIMATE SYSTEM MODEL OF INTERMEDIATE
 COMPLEXITY
 Victor BROVKIN, Martin CLAUSSEN, Eva BAUER

1000 MC12/07A/B19-002
 NATURAL AND ANTHROPOGENIC CLIMATE CHANGE OVER THE PAST 300
 YEARS: THE ROLE OF HISTORICAL LAND COVER CHANGE
 H. Damon MATTHEWS, Andrew J. WEAVER, Katrin J. MEISSNER

1015 MC12/07A/B19-003
 INFLUENCE OF LAND SPECIFICATION TO THE BERINGIAN CLIMATE OF THE
 EARLY HOLOCENE
 Aaron R. RIVERS, Amanda H. LYNCH, Patrick J. BARTLEIN

1030 MC12/07A/B19-004
 HOLOCENE VARIATIONS IN TREE COVER AND LEAF AREA INDEX IN NORTH
 AMERICA
 John W. WILLIAMS

1045 BREAK

1100 MC12/07A/B19-005
 BETULA POLLEN IN THE LAPTEV SEA SHELF SEDIMENTS AS HOLOCENE
 CLIMATIC INDICATOR
 Olga D. NAIDINA, Henning A. BAUCH

1115 MC12/07A/B19-006
 SIMULATION OF NATURAL MILLENNIAL-SCALE CLIMATE VARIABILITY FROM
 THE EARLY HOLOCENE (8 KYR BP) TO THE PREINDUSTRIAL PERIOD (1700
 AD) USING THE MCGILL PALEOCLIMATE MODEL
 Yi WANG, Lawrence A. MYSAK, Zhaomin WANG, Victor BROVKIN

1130 MC12/07A/B19-007
 MESOSCALE MODELING OF THE AFRICAN HUMID PERIOD
 Kerry Harrison COOK, Nicholas J. NEARY



SS03 Monday, July 7 AM
TECTONOPHYSICS AND CRUSTAL STRUCTURE
 Location: Site A, Room 2

Presiding Chairs: P. Suhadolc, S. Das

0900 SS03/07A/A02-001
 SURFACE WAVE STRUCTURE STUDY USING A HIGH DENSITY NETWORK
 Toshiro TANIMOTO, Kenton PRINDLE-SHELRAKE

0915 SS03/07A/A02-002
 THREE-DIMENSIONAL FAULT ZONE STRUCTURE AND EARTHQUAKE
 LOCATIONS AT PARKFIELD, CALIFORNIA
 Clifford H. THURBER, Steven ROECKER, Peter MALIN, William ELLSWORTH

0930 SS03/07A/A02-003
 SEISMIC VELOCITY STRUCTURE IN THE MARGIN OF THE SOUTHWESTERN
 JAPAN SEA OFF TOTTORI BY OCEAN BOTTOM SEISMOGRAPHIC
 OBSERVATION
 Takeshi SATO, Seiichi MIURA, Gou FUJIE, Koichiro OBANA, Aki ITO, Dong-Hyo
 KANG, Shuichi KODAIRA, Kiyoshi SUEHIRO, Yoshiyuki KANEDA, Takaya
 IWASAKI

0945 SS03/07A/A02-004
 SEISMICITY, TOMOGRAPHY AND ACTIVE TECTONICS IN CENTRAL TAIWAN
 Francis T. WU, Harley M. BENZ, Chien-Hsin CHANG, Y-h-Min WU

1000 BREAK

1030 SS03/07A/A02-005
 SHEAR VELOCITY STRUCTURE IN THE AEGEAN AREA OBTAINED BY
 INVERSION OF RAYLEIGH WAVES
 Eleni E. KARAGIANNI, C.B. PAPAZACHOS, D.G. PANAGIOTOPOULOS, P.
 SUHADOLC, A. VUAN, G.F. PANZA

1045 SS03/07A/A02-006
 LOW-FOLD SEISMIC REFLECTION IMAGE OF THE OUTER ZONE, SW JAPAN
 Hiroshi SATO, Tanio ITO, Takaya IWASAKI, Naoshi HIRATA, Steven HARDER,
 Kate MILLER, Masazumi ONISHI, Yoshiyuki KANEDA

1100 SS03/07A/A02-007
 CRUSTAL SECTION ACROSS THE HIDAKA COLLISION ZONE, HOKKAIDO,
 JAPAN, AS INFERRED FROM SEISMIC REFRACTION/REFLECTION
 PROFILING
 Takaya IWASAKI, Research Group of Hokkaido Transect

1115 SS03/07A/A02-008
 CRUSTAL STRUCTURE AROUND THE NORTHERN PART OF THE ITOIGAWA-
 SHIZUOKA TECTONIC LINE (ISTL), CENTRAL JAPAN, FROM
 REFRACTION/WIDE-ANGLE REFLECTION DATA
 Tetsuya TAKEDA, Takaya IWASAKI, Hiroshi SATO, Shin'ichi SAKAI, Takashi
 IIDAKA

1130 SS03/07A/A02-009
 REFRACTION AND WIDE-ANGLE REFLECTION STUDIES BY USE OF MCS
 AND OBS IN MARMARA SEA, TURKEY (SEISMARMARA 2001)
 Hideki SHIMAMURA, Anne BÉCEL, Jean-Claude LÉPINE, Tuncay TAYMAZ,
 Yoshio MURAI, Philippe CHARVIS, Yuichi NISIMURA, Mireille LAIGLE, Alfred
 HIRN, Serdar OZALAYBEY

1145 SS03/07A/A02-010
 REFLECTION OF THE CHANGES OF THE PHYSICAL PROPERTIES OF THE
 EARTH CRUST IN THE BULK-SOUND AND SHEAR WAVE-SPEED VARIATIONS
 Alexei GORBATOV, Brian L.N. KENNETT

1200 SS03/07A/A02-011
 MELT GENERATING PROCESSES AT THE SOUTHEARN EAST PACIFIC RISE
 REVEALED BY THE ELECTRICAL CONDUCTIVITY STRUCTURE
 Kiyoshi BABA, Alan D. CHAVE, Rob L. EVANS, Greg HIRTH, Randall L. MACKIE

1215 SS03/07A/A02-012
 THE SIMULATOR EARTH'S CRUST MAKE BY BASE OF THEORY COVER
 Stanislav G. DOLGIKH

SS04 Monday, July 7 AM
**STRONG GROUND MOTION, EARTHQUAKE HAZARD AND
 RISK**
 Location: Site A, Room 3

Program Group Z. Wu, K. Kudo, G.F. Panza, K. Shedlock
 Presiding Chairs: K. Shedlock, W. Zhongliang

0915 SS04/07A/A03-001 Invited
 S-WAVE VELOCITY STRUCTURE AT EURO-SEISTEST, VOLVI, GREECE
 DETERMINED BY ARRAY OBSERVATION OF MICROTREMORS
 Kazuyoshi KUDO, Tatsuo KANNO, Hiroshi OKADA, Tsutomu SASATANI, Pashalis
 APOSTOLIDIS, Dimitrios RAPPAKIS

0945 SS04/07A/A03-002
 3-D STRUCTURE OF THE KANTO BASIN, JAPAN FROM JOINT INVERSION OF
 REFRACTION AND GRAVITY DATA
 Afnimar AFNIMAR, Kazuki KOKETSU, Masao KOMAZAWA

1000 SS04/07A/A03-003
 THE DETERMINISTIC ESTIMATION OF SITE EFFECTS AND SEISMIC
 HAZARD MAP IN BEIJING AREA
 Zhifeng DING, Yuntai CHEN, Guliano F. PANZA

1015 SS04/07A/A03-004
 SITE EFFECTS IN URBAN AREAS : RECENT RESULTS ON SITE CITY
 INTERACTION
 Pierre-Yves BARD, Jean-Louis CHAZELAS, Philippe GUGUEN, Marc KHAM, Jean-
 François SEMBLAT

1030 SS04/07A/A03-005
 A STUDY ON SITE EFFECTS IN ADAPAZARI, TURKEY, FROM STRONG- AND
 WEAK MOTION RECORDS
 Oguz Asim OZEL, Tsutomu SASATANI

1045 BREAK

1100 SS04/07A/A03-006
 USING MICROTREMORS FOR CHARACTERIZING SITE RESPONSE IN
 GREATER CAIRO AREA AND GENERATION OF MICROSEISMIC ZONATION
 MAPS
 Mohamed Ahmed GAMAL, Yehia Elsaid ABDELHADY

1115 SS04/07A/A03-007
 SITE RESPONSE EVALUATION USING H/V AND SPECTRAL RATIOS IN THE
 TAIPEI BASIN
 Huey-Chu HUANG, Yi-Xiang CHIU

1130 SS04/07A/A03-008
 THE NON-LINEAR SITE RESPONSE AT DAHAN DOWNHOLE ARRAY SITE
 DURING 1999 CHI-CHI TAIWAN EARTHQUAKE
 Hung-Chie CHIU

- 1145

SS04/07A/A03-009

ATTENUATION RELATION FOR EUROPE DETERMINED WITH EUROPEAN DATA AND RECENT NEAR FAULT RECORDS FROM CALIFORNIA, JAPAN AND TURKEY

Yoshimitsu FUKUSHIMA, Catherine BERGE-THIERRY, Philippe VOLANT, DaphneAnne GRIOT-POMMERA, Fabrice COTTON
- 1200

SS04/07A/A03-010

NONLINEAR SEISMIC RESPONSES IN 1D AND 2D MEDIA

Avadh RAM, Arun K. GUPTA
- 1215

SS04/07A/A03-011

FINITE-DIFFERENCE SIMULATION OF SEISMIC NOISE IN SURFACE GEOLOGIC STRUCTURES

Peter MOCZO, Jozef KRISTEK, Cecile CORNOU, Sylvette BONNEFOY-CLAUDET , Pierre-Yves BARD

Monday, July 7

PM



JSG01

Monday, July 7 PM

SECULAR, TRANSIENT AND PERIODIC CRUSTAL MOVEMENTS AND THEIR GEOPHYSICAL IMPLICATIONS (IAG, IASPEI)

Location: Site A, Room 1

Presiding Chair: T. Kato

- 1400

JSG01/07P/A01-001

VARIATION OF STRAIN PROMOTED BY THE SLOW SLIP EVENT IN THE TOKAI REGION REVEALED BY THE CONVERTED STRAIN FROM GPS DATA

Sumio YOSHIKAWA, Takeyasu YAMAMOTO
- 1415

JSG01/07P/A01-002

MIGRATION OF ANOMALOUS CRUSTAL DEFORMATION IN TOKAI AREA, JAPAN

Masaru KAIDZU, Shinzaburo OZAWA
- 1430

JSG01/07P/A01-003

POSTSEISMIC DEFORMATION FOLLOWING THE 1997 UMBRIA-MARCHE (ITALY) MODERATE NORMAL FAULTING EARTHQUAKES

Abdelkrim AOUDIA, Alessandra BORGHI, Riccardo RIVA, Riccardo BARZAGHI, Boudewijn AMBROSIUS, Roberto SABADINI, Bert VERMEERSEN, Giuliano PANZA
- 1445

JSG01/07P/A01-004

THE PRESENT-DAY TRANSIENT AND SECULAR DEFORMATION FIELD OF THE ANDEAN SUBDUCTION ZONE

Juergen KLOTZ, Amir ABOLGHASEM, Klaus BATAILLE, Rodrigo MATURANA, Raul PERDOMO
- 1500

JSG01/07P/A01-005

THE NATURE OF EPISODIC SLIP ALONG THE NORTHERN CASCADIA MARGIN: REGULAR AND NOT-SO-SILENT

Herb DRAGERT
- 1515

JSG01/07P/A01-006

THE SEISMIC SIGNATURE OF TRANSIENT SLIPS ON THE CASCADIA SUBDUCTION ZONE

Garry ROGERS
- 1530

JSG01/07P/A01-007

INTERPLATE COUPLING DERIVED FROM THE GPS TRAVERSE ACROSS THE HINGE-LINE IN KII PENINSULA AND ITS IMPLICATION TO PRESEISMIC CHANGES IN GROUNDWATER LEVEL BEFORE THE 1946 NANKAI EARTHQUAKE

Manabu HASHIMOTO, Yasuhiro UMEDA, Kensuke ONOUE, Fumio OHYA, Yoshinobu HOSO, Kazutoshi SATO

1545

BREAK

- 1605

JSG01/07P/A01-008

TRANSIENT DEFORMATION BEFORE THE 2002 DENALI FAULT EARTHQUAKE, CENTRAL ALASKA

Jeffrey Todd FREYMUELLER, Hilary J. FLETCHER, Sigrún HREINSDÓTTIR, Hisashi SUITO
- 1620

JSG01/07P/A01-009

POSTSEISMIC DEFORMATION FOLLOWING THE 2002 DENALI FAULT EARTHQUAKE

Jeffrey Todd FREYMUELLER, Roland B?EGMANN, Eric CALAIS, Andy FREED, Evelyn PRICE, Hilary J. FLETCHER, Sigrún HREINSDÓTTIR, Christopher F. LARSEN

- 1635

JSG01/07P/A01-010

POST-EARTHQUAKE DEFORMATION FROM INSAR AND STRAINMETERS CORRELATED TO PORE-PRESSURE TRANSIENTS

Paul SEGALL, Sigurjón JÓNSSON, Rikke PEDERSEN, Kristjan AGUSTSSON, Grímur BJÖRNSSON
- 1650

JSG01/07P/A01-011

STRESS-INDUCED MIGRATION OF SEISMIC SCATTERERS ASSOCIATED WITH THE 1993PARKFIELD ASEISMIC TRANSIENT

Fenglin NIU, Paul G. SILVER, Robert M. NADEAU
- 1705

JSG01/07P/A01-012

INSAR-BASED SEISMISITY STUDY OF SOUTH-WESTERN AUSTRALIA EARTHQUAKE PRONE ZONE

Diana POLONSKA, Clive COLLINS, Phil CUMMINS, Craig J.H. SMITH, Linlin GE, Chris RIZOS
- 1720

JSG01/07P/A01-013

SEASONAL VARIATION OF SCALE OF GEONET NETWORK AND ZTD BIASES

Yuki HATANAKA
- 1735

JSG01/07P/A01-014

SEASONAL CRUSTAL DEFORMATION IN JAPAN: FINAL SYNTHESIS

Kosuke HEKI

JSH01

Monday, July 7 PM

THE REMOTE SENSING OF THE CRYOSPHERE (IAHS [ICSI, ICRS], IAMAS, IAPSO)

Location: Site C, Room 27

Presiding Chairs: M. Tranter, E. Brun

PERMAFROST

- 1400

JSH01/07P/C27-001

GEOPHYSICAL MONITORING OF HYDROTECHNICAL OBJECTS IN PERMAFROST ZONE

Vyatcheslav Aleksandrovich ISTRATOV, Svet Yurievich MILANOVSKY, Sergei Aleksandrovich VELIKIN
- 1420

JSH01/07P/C27-002

PERMAFROST MAPPING AND DEFORMATION MONITORING USING SAR INTERFEROMETRY

Zhen LI
- 1440

JSH01/07P/C27-003

REMOTE SENSING DETERMINATION OF THE PERMAFROST THICKNESS

Vil S. YAKUPOV, Sergey V. YAKUPOV
- 1500

JSH01/07P/C27-004

DETECTING THE NEAR-SURFACE SOIL FREEZE-THAW CYCLE USING A COMBINED FROZEN SOIL ALGORITHM

Tingjun ZHANG, Richard L. ARMSTRONG, Jeff SMITH
- 1520

JSH01/07P/C27-005

ELECTROMAGNETIC DIAGNOSTICS OF PERMAFROST OF THE NORTHEAST PART OF THE RUSSIA BY MEANS OF GROUND AND REMOTE METHODS OF RADIOIMPEDANCE SOUNDING AND PROFILING

Mikhail Georgievich DEMBELOV, Yuri Buddich BASHKUEV, Viktor Petrovich MELCHINOV, Ludmila Khanharaevna ANGARKHAEVA

1540

BREAK

SNOW HYDROLOGY

- 1600

JSH01/07P/C27-006

COMBINING REMOTE SENSING ADVANCES, DATA RELAY, AND INTERLINKED HYDROLOGIC MODELS TO IMPROVE SNOWMELT RUNOFF FORECASTING IN THE RIO GRANDE BASIN

Albert RANGO, Enrique GOMEZ-LANDESA, Max BLEIWEISS, David DEWALLE, Geoff KITE, Jaroslav MARTINEC, Kris HAVSTAD
- 1620

JSH01/07P/C27-007

THE SNOW WATER EQUIVALENT SCALING EXPERIMENT: OVERVIEW AND INITIAL RESULTS

Chris P. DERKSEN, Chris P. DERKSEN, Anne E. WALKER, Barry E. GOODISON
- 1640

JSH01/07P/C27-008

ESTIMATION OF SNOW WATER EQUIVALENT AND SNOWMELT WATER USING THE SNOW INDEX -A CASE STUDY IN THE KUROBE BASIN, JAPAN-

Yuichi SHIMAMURA, Takeki IZUMI, Daichi NAKAYAMA, Hiroshi MATSUYAMA
- 1700

JSH01/07P/C27-009

STREAMFLOW RESPONSE TO SNOWCOVER EXTENT CHANGE IN LARGE SIBERIAN RIVERS

Daqing YANG, David ROBINSON, Yuanyuan ZHAU, Thomas ESTILOW, Baisheng YE

WEEK

B

MON

PM

1720 JSH01/07P/C27-010
STUDY ON SNOWMELT RUNOFF SIMULATION AND FORECAST USING GIS AND REMOTE SENSING DATA IN THE MOUNTAINOUS REGION OF WESTERN CHINA
Jian WANG, Yongchao LAN

1740 JSH01/07P/C27-011
IMAGERY OF SNOW WATER EQUIVALENT FROM SSM/I AND MODIS DATASETS IN QINGHAI-TIBETAN PLATEAU
Tao CHE, Xin LI, Richard L. ARMSTRONG, Rui JIN

JSM10 Monday, July 7 PM

CRYOSPHERE-CLIMATE INTERACTIONS (IAMAS [ICCL, ICPM], IAPSO, IAHS)
Location: Site B, Room 23

Presiding Chair: S. O'Farrell

MARINE CRYOSPHERE: SEA ICE AND ICE SHELVES

1400 JSM10/07P/B23-001
CLIMATE INTERACTIONS IN THE MARINE CRYOSPHERE
Ian ALLISON

1440 JSM10/07P/B23-002
AIR-ICE INTERACTIONS DURING THE SHEBA DEPLOYMENT IN A 2-DIMENSIONAL COUPLED MODEL
Xiangdong ZHANG, Bin CHENG, Timo VIHMA, John E. WALSH

1500 JSM10/07P/B23-003
SURFACE ENERGY BUDGETS AND CLOUD FORCING ON THE ARCTIC ICE CAP: ONE YEAR OF DATA FROM THE SHEBA EXPERIMENT
Chris W. FAIRALL, Janet INTRIERI, Taneil UTTAL, Ola PERSON

1520 JSM10/07P/B23-004
MOMENTUM CONSERVING ICE-OCEAN COUPLING FOR INERTIAL AND TIDAL SEA ICE VARIABILITY
William HIBLER III, Petra HEIL, Harper SIMMONS, Jennifer K. HUTCHINGS

1540 BREAK

1600 JSM10/07P/B23-005
MODELLING OF THE THICKNESS DISTRIBUTION OF THE ARCTIC SEA ICE
Jari Juhani HAAPALA

1620 JSM10/07P/B23-006
THE RELATIONSHIP BETWEEN ANTARCTIC COASTAL TEMPERATURES AND SEA ICE EXTENT
Steven Richard COLWELL, John TURNER

1640 JSM10/07P/B23-007
EFFECTS OF SURFACE FRESHWATER FLUX INDUCED BY SOUTHERN HEMISPHERE SEA ICE TRANSPORT ON THE GLOBAL THERMOHALINE CIRCULATION
Yoshiki KOMURO, Hiroyasu HASUMI

1700 JSM10/07P/B23-008
ICE SHELVES SHAPING THE SOUTHERN OCEAN ENVIRONMENT
Hartmut H. HELLMER

1720 JSM10/07P/B23-009
THE AMISOR PROJECT: AMERY ICE SHELF DYNAMICS AND ICE-OCEAN INTERACTION
Ian ALLISON, Helen FRICKER, Mike CRAVEN, Neal YOUNG

JSM14 Monday, July 7 PM

DYNAMICS AND PREDICTABILITY OF SEVERE WEATHER EVENTS (IAMAS [ICDM, ICCP], IAHS)
Location: Site A, Room 5

Presiding Chairs: M.V. Kurgansky, M. Yoshizaki

1400 JSM14/07P/A05-001 Invited
ENVIRONMENTAL CONTROL OF TROPICAL CYCLONE INTENSITY
Kerry EMANUEL

1435 JSM14/07P/A05-002
SIMULATION EXPERIMENT OF TYPHOON SPIRAL BANDS BY THE CLOUD RESOLVING STORM SIMULATOR
Mitsuharu NOMURA, Kazuhisa TSUBOKI, Atsushi SAKAKIBARA, Taro SHINODA

1450 JSM14/07P/A05-003
DETECTION AND TRACKING OF TYPHOON 0115 CENTER FROM DUAL DOPPLER RADAR MEASUREMENTS
Masayuki MAKI, Koyuru IWANAMI, Ryohei MISUMI, Sang-Goon PARK, Mihoko STO, Takeshi MAESAKA, Masaki KATSUMATA, Daisuke HASHIMOTO

1505 JSM14/07P/A05-004
LABORATORY AND NUMERICAL MODELING OF TYPHOON-LIKE VORTEX
Gennadiy BOGATYRYOV, Gennadiy BOGATYRYOV, Ilya KOLESNICHENKO, Galina LEVINA, Mikhail POVARNITSYN, Andrey SUKHANOVSKY

1520 POSTER PREVIEW SESSION

1605 BREAK

1620 JSM14/07P/A05-005 Invited
CHARACTERISTICS OF CLOUD CLUSTERS AROUND THE MEIYU/BAIU FRONT
Hiroshi UYEDA, Kohei SAKAMOTO

1655 JSM14/07P/A05-006 Invited
RADAR OBSERVATIONS OF MESOSCALE CONVECTIVE SYSTEMS IN THE TAIWAN MEIYU SEASON
Jong-Dao Ben JOU

1730 JSM14/07P/A05-007
NUMERICAL STUDIES OF THE MESOSCALE PRECIPITATION SYSTEMS OVER TAIWAN
Pay-Liam LIN

1745 JSM14/07P/A05-008
REGIONAL VARIABILITY OF WARM-SEASON CLOUD/PRECIPITATION EPISODES OVER EAST ASIA BASED ON GMS INFRARED OBSERVATIONS
Chung-Chieh WANG, George Tai-Jen CHEN, Richard E. CARBONE

JSM15-Posters Monday, July 7 PM

SPECIAL NAKAYA-MAGONO CELEBRATION: THE GROWTH OF ICE CRYSTALS AND SNOW (IAMAS [ICCP, ICPM], IAHS)
Location: Site D

Presiding Chairs: G. Isaac, E. Yokoyama

1400-001 JSM15/07P/D-001 Poster
EFFECT OF ANTIFREEZE GLYCOPROTEIN FOR ICE CRYSTAL GROWTH KINETICS
Yoshinori FURUKAWA, Yoshihiro NISHIMURA, Etsuro YOKOYAMA, Naomi INOHARA, Takanori TERASAWA

1400-002 JSM15/07P/D-002 Poster
GROWTH PATTERN DIAGRAM OF SNOW CRYSTALS
Norikazu MAENO, Yoshinori FURUKAWA, Keiji HIGUCHI

1400-003 JSM15/07P/D-003 Poster
MORPHOLOGY OF SNOW CRYSTALS GROWN AT LOW TEMPERATURES IN FREE FALL
Chuji TAKAJASHI

1400-004 JSM15/07P/D-004 Poster
GROWTH PATTERNS OF SNOW CRYSTALS
Etsuro YOKOYAMA, Toshiharu IRISAWA, Yoshinori FURUKAWA

1400-005 JSM15/07P/D-005 Poster
PATTERN FORMATION AT INTERFACE BETWEEN ICE AND SALT SOLUTION DURING ONE-DIRECTIONAL GROWTH
Kazushige NAGASHIMA, Yoshinori FURUKAWA

1400-006 JSM15/07P/D-006 Poster
DYNAMIC VISUALIZATION OF SNOW METAMORPHISM USING COMPUTED TOMOGRAPHY
Martin SCHNEEBELI, Sergey A. SOKRATOV

1400-007 JSM15/07P/D-007 Poster
GROWTH OF LARGE FROST CRYSTALS IN COLD CHAMBER
Keiji HIGUCHI, Hiroji FUSHIMI, Yukari NISHIMURA, Eri SANDA, Sakie SUMIKAWA, Sakae SHIMABAYASHI, Kenzo KANDA

1414 DISCUSSION

JSP06 Monday, July 7 PM

THE GLOBAL OCEAN OBSERVING SYSTEM (IAPSO, IAG, IOC)
Location: Site B, Room 21

Presiding Chair: G.J. Goni

1400 JSP06/07P/B21-001
RECENT ADVANCES IN THE TRITON PROJECT: SURFACE MOORING ARRAY IN THE WESTERN TROPICAL PACIFIC AND EASTERN INDIAN OCEANS
Yoshifumi KURODA

1420 JSP06/07P/B21-002
THE ARGO PROJECT: OBSERVING THE GLOBAL OCEAN IN REAL-TIME
Dean H. ROEMMICH

1450 JSP06/07P/B21-003
QUALITY OF ARGO SALINITY DATA MAINTAINED BY DELAYED-MODE QUALITY CONTROL
Taiyo KOBAYASHI, Shinnya MINATO, Toshio SUGA

1510 JSP06/07P/B21-004
GLOBAL ARGO DATA REPOSITORY: A GATEWAY TO ARGO DATA,
INFORMATION, AND SERVICE
Charles SUN

1530 BREAK

1600 JSP06/07P/B21-005
THE PACIFIC HIGH RESOLUTION XBT/XCTD NETWORK:MEAN AND TIME-
VARYING MASS AND HEAT BALANCE OF THE TASMAN BOX
Dean H. ROEMMICH, John GILSON, Josh WILLIS, Ken RIDGWAY, Richard
BAILEY, Philip SUTTON

1620 JSP06/07P/B21-006
MERIDIONAL TRANSPORT OF NORTH PACIFICINTERMEDIATE WATER
ACROSS 37N BASED ON THEOBJECTIVE ANALYSIS OF LOWERED
ACOUSTIC DOPPLERCURRENT PROFILER DATA
Hiroshi YOSHINARI, Ichiro YASUDA, Motoyoshi IKEDA

1640 JSP06/07P/B21-007
BASIN-SCALE OCEANOGRAPHIC PROBLEMS OF THE ARCTIC OCEAN AND A
MONITORING SYSTEM FOR THEIR SOLUTION
Andrey PROSHUTINSKY, John TOOLE, Richard KRISHFIELD

1700 JSP06/07P/B21-008
NEAR-GOOS DATA SYSTEM
Takashi YOSHIDA

JSP06-Posters Monday, July 7 PM

THE GLOBAL OCEAN OBSERVING SYSTEM (IAPSO, IAG, IOC)
Location: Site D

1400-008 JSP06/07P/D-001 Poster
GLOBAL MEAN SEA SURFACE HEIGHT MODE BASED ON SATELLITE
ALTIMETRY DATA
Jianguo HU, Jiancheng LI, Weiping JIANG

1400-009 JSP06/07P/D-002 Poster
A NEW FALL-RATE EQUATION FOR THE JAPANESE T-5 XBT PROBES
Shoichi KIZU, Kimio HANAWA

1400-010 JSP06/07P/D-003 Poster
OCEAN OBSERVATIONS IN CLIVAR
Michael SPARROW, Katy L. HILL, Howard CATTLE, Roberta BOSCOLO,
Zhongwei YAN

1400-011 JSP06/07P/D-004 Poster
FERHRI PRESENT ACTIVITY WITHIN NEAR-GOOS AND RELATED PROJECTS
Evgeniy Viktorovich KARASEV, Aleksander Nikolaevich MAN'KO, Evgeniy
Petrovich URAEVSKIY, Nikolay Afanasievich RYKOV

1400-012 JSP06/07P/D-005 Poster
THE TROPICAL ATLANTIC OBSERVING SYSTEM
Silvia Lucia GARZOLI, Jacques SERVAIN, Gustavo Jorge GONI

1400-013 JSP06/07P/D-006 Poster
ON THE MEAN AND FLUCTUATING TEMPERATURE FIELD IN
THESUBTROPICAL NORTH ATLANTIC OCEAN
Molly O'Neil BARINGER, Dennis MAYER, Gustavo GONI

1400-014 JSP06/07P/D-007 Poster
NEAR-GOOS RDMDB AND THE RELATED JODC ACTIVITIES
Satoshi SATO

1400-015 JSP06/07P/D-008 Poster
COMPARISON OF HYDROGRAPHIC AND ALTIMETER BASED ESTIMATES OF
SEA LEVEL HEIGHT VARIABILITY IN THE ATLANTIC OCEAN
Dennis MAYER, Molly O'Neil BARINGER, Gustavo GONI

1400-016 JSP06/07P/D-009 Poster
PATHWAYS OF NORTH PACIFIC INTERMEDIATE WATERS
Yuzhu YOU

JSP11 Monday, July 7 PM

**GEOPHYSICAL RISK AND VULNERABILITY: THE
POPULATION-HAZARD INTERACTION (IAPSO, IAGA, IAHS,
IAMAS, IASPEI, IAVCEI)**
Location: Site A, Room 10

Presiding Chair: A. Ismail-Zadeh

1400 JSP11/07P/A10-001
SUSTAINABILITY OF WATER RESOURCES IN A COASTAL CITY IN A
CHANGING ENVIRONMENT
Shadananan K. NAIR

1430 JSP11/07P/A10-002
GENPATSU-SHINSAI: CATASTROPHIC MULTIPLE DISASTER OF
EARTHQUAKE AND QUAKE-INDUCED NUCLEAR ACCIDENT ANTICIPATED IN
THE JAPANESE ISLANDS
Katsuhiko ISHIBASHI

1500 JSP11/07P/A10-003
THE FINAL STAGE OF PLATE DETACHMENT - THE CARPATHIAN MODEL
Victor I. MOCANU

1530 BREAK

1550 JSP11/07P/A10-004 Invited
POPULATION DYNAMICS AND RISK VULNERABILITY IN INDIA
Ramesh P. SINGH, Anup K. PRASAD, Nilima BHOI

1620 JSP11/07P/A10-005
SEISMIC MICROZONATION OF DELHI, INDIA: AN APPROACH USING SITE
SPECIFIC RESPONSE
KAMAL, Sriram. V., Mundepi A. K.

1640 JSP11/07P/A10-006
AN INTEGRATED FRAMEWORK FOR EARTHQUAKE DAMAGE ASSESSMENT
OF REINFORCED CONCRETE BUILDING
Zenggoing WEN, Hongshan LU

1700 JSP11/07P/A10-007
NEW APPROACH TO PARAMETERIZATION OF THE DISTRIBUTION OF
STRONG EARTHQUAKES: EVALUATION OF THE CROSSOVER POINT AND
ITS CONNECTION WITH TECTONIC CHARACTERISTICS
Mikhail V. RODKIN

1720 JSP11/07P/A10-008
GLOBAL HAZARD MAPS BASED ON UNIFIED SCALING LAW FOR
EARTHQUAKES
Anastassia K. NEKRASOVA, Vladimir G. KOSSOBOKOV

1740 JSP11/07P/A10-009
HIGH-FREQUENCY HYDRO ACOUSTIC SIGNALS (40 - 110 HZ) DETECTED
BEFORE THE EARTHQUAKES ON THE PACIFIC SHELF OF THE KAMCHATKA
PENINSULA
Victor E. MOROZOV

JSS06 Monday, July 7 PM

**EARTH STRUCTURE AND GEODYNAMICS (IASPEI, IAVCEI,
IAG, IAGA)**
Location: Site A, Room 4

Program Group B. Romanowicz, U. Christensen, T. Irifune, B.L.N. Kennett,
D.T. Sandwell, S. Widiyantoro
Presiding Chair: P. Tackley

1400 JSS06/07P/A04-001
SEISMIC TOMOGRAPHY AND THE BOUNDARY BETWEEN UPPER AND
LOWER MANTLE
Adam Marian DZIEWONSKI

1420 JSS06/07P/A04-002
AVALANCHES REVISITED: EFFECTS OF THE PYROXENE-GARNET SYSTEM
ON THE EXTENT OF MANTLE LAYERING AT 660 KM
Paul J. TACKLEY

1440 JSS06/07P/A04-003
SYSTEMATIC STUDIES OF THE MANTLE DISCONTINUITIES
Arwen DEUSS, John H. WOODHOUSE

1500 JSS06/07P/A04-004
OBSERVATIONS AND IMPLICATIONS OF MID-MANTLE SEISMIC
REFLECTORS BENEATH THE MARIANA SUBDUCTION ZONE
Fenglin NIU, Hitoshi KAWAKATSU, Yoshio FUKAO

1520 BREAK

1540 JSS06/07P/A04-005
THICK MANTLE TRANSITION ZONE BENEATH THE PHILIPPINE SEA AS
INFERRED USING THE RECEIVER FUNCTION METHOD FOR DATA FROM
THE LONG TERM BROADBAND OCEAN BOTTOM SEISMOGRAPH ARRAY
Daisuke SUETSUGU, Hajime SHIOBARA, Hiroko SUGIOKA, Shunichi KODAIRA,
Yoshio FUKAO, Kimihiro MOCHIZUKI, Toshihiko KANAZAWA, Ryota HINO,
Tomoharu SAITA

1600 JSS06/07P/A04-006
MANTLE STRUCTURE AND COMPOSITION TO 800 KM DEPTH BENEATH
SOUTHERN AFRICA AND SURROUNDING OCEANS FROM BROADBAND
BODY WAVES
Rapelang E. SIMON, Cedric WRIGHT, M. Tarzan O. KWADIBA, Eldridge M.
KGASWANE

WEEK
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- 1620 JSS06/07P/A04-007**
IMAGING THE MANTLE DISCONTINUITY STRUCTURE BENEATH THE SOUTH INDIA
K. SURYAPRAKASAM, B.K. BANSAL, T.J. OWENS, S.S. RAI
- 1640 JSS06/07P/A04-008**
SEISMIC EVIDENCE FOR A THICKER-THAN-NORMAL TRANSITION ZONE AND SUBDUCTED OCEANIC CRUST BENEATH SOUTHERN AFRICA
John Anthony BLUM, Yang SHEN
- 1700 JSS06/07P/A04-009**
VP/VS AND MINERALOGY OF THE TRANSITION LAYER OF THE EARTH'S MANTLE
Hideyuki FUJISAWA
- 1720 JSS06/07P/A04-010**
THE ROLE OF A SLAB AVALANCHE IN THE RECENT EVOLUTION OF THE NEW HEBRIDES SUBDUCTION ZONE
Miaki ISHII, Russell N. PYSKLYWEC, Jerry X. MITROVICA
- 1740 JSS06/07P/A04-011**
CHEMICAL STRATIFICATION IN A NUMERICALLY MODELED TWO-DIMENSIONAL MANTLE WITH MAGMATISM AND MOVING PLATES
Masaki OGAWA



IAG

G03-Posters

Monday, July 7 PM

DETERMINATION OF THE GRAVITY FIELD. MEETING OF IAG SECTION III

Location: Site D

- 1400-023 G03/07P/D-001 Poster**
DETERMINATION OF ABSOLUTE GRAVITY VALUES USING A FG5#210 IN BANDUNG AND YOGYAKARTA, INDONESIA
Toshihiro HIGASHI, Yoichi FUKUDA, Maiko ABE, Shuzo TAKEMOTO, Sjafra DWIPA, Dendi Surya KUSUMA, Achmad ANDAN, Koichiro DOI, Yuichi IMANISHI, Giuseppe ARDUINO
- 1400-024 G03/07P/D-002 Poster**
THE NEW GRID OF GRAVIMETRIC TERRAIN CORRECTIONS OVER TURKEY COMPUTED FROM HIGH-RESOLUTION DIGITAL TERRAIN MODEL
Ali KILICOGLU, Mehmet Emin AYHAN, Coskun DEMIR, Orhan FIRAT, Ersin AKIZ
- 1400-025 G03/07P/D-003 Poster**
CALIBRATION OF THE SUPERCONDUCTING GRAVIMETER WITH AN ABSOLUTE GRAVIMETER FG-5 IN BANDUNG, INDONESIA
Maiko ABE, Toshihiro HIGASHI, Yoichi FUKUDA, Shuzo TAKEMOTO, Sjafra DWIPA, Dendi Surya KUSUMA, Achmad ANDAN, Yuichi IMANISHI, Koichiro DOI
- 1400-026 G03/07P/D-004 Poster**
NEW GRAVITY ANOMALY MAPS FOR ARGENTINA: MAGARG 2003
Eduardo Andres LAURIA, Maria Cristina PACINO, John Derek FAIRHEAD, Denizar BLITZKOW
- 1400-027 G03/07P/D-005 Poster**
A PRACTICAL COMPARISON OF HELMERT'S FIRST AND SECOND METHOD OF CONDENSATION IN THE PRECISE GEOID DETERMINATION
Szabolcs ROZSA, Bernhard HECK
- 1400-028 G03/07P/D-006 Poster**
PREDICTION OF VERTICAL GRAVITY GRADIENTS USING GRAVITY AND ELEVATION DATA
Gyula TÓTH, Szabolcs ROZSA
- 1400-029 G03/07P/D-007 Poster**
GRAVITY-BASED FAULT MAPPING: THE ISHIKARI LOWLAND OF HOKKAIDO, JAPAN
Akihiko YAMAMOTO
- 1400-030 G03/07P/D-008 Poster**
OPTIMISATION OF DENSITY PARAMETER IN GRAVITY PREDICTION FROM BATHYMETRY
David Michael SPROULE, A.H.W. KEARSLEY, R. FORSBERG
- 1400-031 G03/07P/D-009 Poster**
A VERSATILE GRAVIMETRY/GRADIOMETRY SIMULATION SOFTWARE
Olivier JAMET, Yassine AZZOUT
- 1400-032 G03/07P/D-010 Poster**
A GRAVITY DATABASE OF SOUTHWEST JAPAN: APPLICATION TO BOUGUER GRAVITY IMAGING IN KYUSHU DISTRICT, SOUTHWEST JAPAN
Ryuichi SHICHI, Akihiko YAMAMOTO, Takeshi KUDO, GRG SWJ
- 1400-033 G03/07P/D-011 Poster**
REPEATED MEASUREMENTS OF GRAVITY WITH THE ABSOLUTE GRAVIMETER FG5 #210 AT MATSUSHIRO, JAPAN AND COMPARISON WITH THE SUPERCONDUCTING GRAVIMETER T011
Yuichi IMANISHI, Toshihiro HIGASHI, Yoichi FUKUDA, Mitsuyuki HOSHIBA, Kazuya KOKUBO
- 1400-034 G03/07P/D-012 Poster**
ABSOLUTE GRAVITY MEASUREMENTS IN IRAN RESULTS OF BASE GRAVITY NETWORK & ALBORZ PROJECT
Morteza SEDIGHI, Jacques HINDERER, Kourosh GHAZAVI, Roger BAYER, Faramarz NILFOROUSHAN, Brenard LUCK, Farokh TAVAKOLI, Martine AMALVICET, Hamid Reza NANKALI
- 1400-035 G03/07P/D-013 Poster**
ESTABLISHMENT OF NEW GRAVITY CALIBRATION LINE FOR IRAN
Kourosh GHAZAVI, Farokh TAVAKOLI
- 1400-036 G03/07P/D-014 Poster**
IDENTIFICATION OF LONG-WAVELENGTH ERRORS IN AUSTRALIAN GRAVITY ANOMALIES AND GEOID HEIGHTS USING CHAMP DATA
Will FEATHERSTONE
- 1400-037 G03/07P/D-015 Poster**
COMPILATION AND EVALUATION OF A CONSISTENT MARINE GRAVITY DATA SET SURROUNDING EUROPE
Heiner DENKER, Markus ROLAND
- 1400-038 G03/07P/D-016 Poster**
GRAVITY CHANGES IN CHINA CONTINENT
Hui LI, Guangyu FU, Shaoan SUN, Dongzhi LIU, Xiaoquan WANG, Aiming XIANG, Canfei XING
- 1400-039 G03/07P/D-017 Poster**
THE ESTIMATION OF WATER MASS REDISTRIBUTION ON GRAVITY EFFECT
Xuhua ZHOU, Houze HSU
- 1400-040 G03/07P/D-018 Poster**
TERRAIN CORRECTION ON THE MOVING EQUAL AREA CYLINDRICAL MAP PROJECTION OF THE SURFACE OF A REFERENCE ELLIPSOID
Alireza A. ARDALAN, Abdolreza SAFARI, Erik W. GRAFAREND
- 1400-041 G03/07P/D-019 Poster**
UNIFIED EUROPEAN GRAVITY REFERENCE NETWORK 2002 (UEGN2002)
Gerd BOEDECKER, Olivier FRANCIS, Ambrus KENYERES
- 1400-042 G03/07P/D-020 Poster**
COMPARATIVE ANALYSIS OF DIFFERENT ADJUSTMENT METHODS FOR THE HUNGARIAN PART OF THE UNIFIED EUROPEAN GRAVITY NETWORK (UEGN)
Geza CSAPO, Marta KIS, Lajos VOLGYESI
- 1400-043 G03/07P/D-021 Poster**
VALIDITY CONTROL OF THE SEA GRAVITY DATA; CASE STUDIES
Abdolreza SAFARI, Alireza A. ARDALAN
- 1400-044 G03/07P/D-022 Poster**
APPLICATION OF ALTIMETRY DATA FOR GRAVITY RESEARCH IN THE BLACK SEA
Ivan Vladimirovich LYGUINE, Vjacheslav Romanovich MELIKHOV, Andrey Aleksandrovich BULYCHEV, Vladimir Alexseevich LYGIN
- 1400-045 G03/07P/D-023 Poster**
COMPUTATION OF A GEOPOTENTIAL MODEL FROM GOCE DATA USING FAST SPHERICAL COLLOCATION - A SIMULATION STUDY
C.C. TSCHERNING, Dimitrios N. ARABELOS
- 1400-046 G03/07P/D-024 Poster**
CALIBRATION AND VALIDATION OF GOCE GRAVITY GRADIENTS
Johannes BOUMAN, Radboud KOOP, Roger HAAGMANS, Juergen MUELLER, Nico SNEEUW, Christian TSCHERNING, Pieter VISSER
- 1400-047 G03/07P/D-025 Poster**
THE EGYPTIAN GEOID EGGG2003
Hussein A. ABD-ELMOTAAL
- 1400-048 G03/07P/D-026 Poster**
THE NEW GRAVIMETRIC GEOID MODEL FOR TURKEY (TG03)
Ali KILICOGLU, Mehmet Emin AYHAN, Coskun DEMIR, Orhan FIRAT, Ersin AKIZ
- 1400-049 G03/07P/D-027 Poster**
ACCURACY ASSESSMENT OF THE AVAILABLE GEOID MODELS IN ALGERIA
Sid Ahmed BEN AHMED DAHO, J.D. FAIRHEAD, S. KAHLOUCHE, A. ZEGGAI
- 1400-050 G03/07P/D-028 Poster**
ON THE DETERMINATION OF MARINE GEOID MODELS BY LEAST-SQUARES COLLOCATION AND SPECTRAL METHODS USING HETEROGENEOUS DATA
Georgios S. VERGOS, Ilias N. TZIAVOS, Vassilios D. ANDRITSANOS
- 1400-051 G03/07P/D-029 Poster**
OPTIMAL MARINE GEOID DETERMINATION IN THE ATLANTIC COASTAL REGION OF ARGENTINA
Claudia TOCHO, Georgios S. VERGOS, Michael G. SIDERIS

1400-052 G03/07P/D-030 Poster
IMPROVED FITTING BETWEEN GRAVIMETRIC AND GPS/LEVELLING GEOIDS USING AN EXTENDED SIMILARITY TRANSFORMATION MODEL: A CASE STUDY IN JOHOR, MALAYSIA
Christopher KOTSAKIS, Muhammad N.J.P. VELLA

1400-053 G03/07P/D-031 Poster
GRAVIMETRIC GEOID COMPUTATION IN THE ANDES
Claudia Noemi TOCHO, Michael G. SIDERIS, Graciela FONT

1400-054 G03/07P/D-032 Poster
TOWARDS A PRECISE GEOID MODEL FOR ARGENTINA
Maria Cristina PACINO, Eduardo Andres LAURIA, Denizar BLITZKOW

1400-055 G03/07P/D-033 Poster
ADVANCES IN THE CENTIMETER GEOIDAL DETERMINATION OF MEXICO
Antonio HERNANDEZ-NAVARRO, Mario Alberto REYES-IBARRA

1400-056 G03/07P/D-034 Poster
WAVELET EVALUATION OF SOME SINGULAR GEODETIC INTEGRALS
Michael G. SIDERIS, Quanwei LIU

1400-057 G03/07P/D-035 Poster
KMS2002 GLOBAL MARINE GRAVITY FIELD, BATHYMETRY AND MEAN SEA SURFACE
Ole B. ANDERSEN, Per KNUDSEN, Steve KENYON, Ron TRIMMER

1400-058 G03/07P/D-036 Poster
ARCTIC ALTIMETRIC GEOID AND GRAVITY FIELD
Ole B. ANDERSEN, Per KNUDSEN

1400-059 G03/07P/D-037 Poster
A MODEL OF GRAVITY FIELD OF THE EARTH COMPILED ON THE BASIS OF ABSOLUTE VALUES OF GRAVIT
Simeon G. KOSTIANEV, Stoyan AVDEV

1400-060 G03/07P/D-038 Poster
EVALUATION OF NEWTON'S INTEGRAL IN SPACE AND FREQUENCY DOMAIN
Michael KUHN, Kurt SEITZ

1400-061 G03/07P/D-039 Poster
CONCEPTS OF A REGIONAL GEOID DETERMINATION OUT OF MASS MODELS
Urs MARTI

1400-062 G03/07P/D-040 Poster
ON THE NUMERICAL SOLUTION OF PARAMETERS OF THE LEAST SQUARES MODIFICATION OF STOKES' FORMULA
Artu ELLMANN

1400-063 G03/07P/D-041 Poster
A NUMERICAL COMPARISON OF DIFFERENT ELLIPSOIDAL CORRECTIONS TO STOKES' FORMULA
Artu ELLMANN

1400-064 G03/07P/D-042 Poster
FAST LEAST SQUARES COLLOCATION WITH FILTERED HETEROGENEOUS DATA IN GEOID DETERMINATION
Kosasih PRIJATNA, Roger HAAGMANS

1400-065 G03/07P/D-043 Poster
THE DETERMINATION OF A PRECISE GEOID FOR PARANA STATE, BRAZIL
Marcia C.L. QUINTAS, Vivian FERNANDES

1400-066 G03/07P/D-044 Poster
DETERMINATION AND EVALUATION OF SHENZHEN GEOID, P.R.CHINA
Zhicai LUO, Jinsheng NING, Zhanji YANG, Yongqi CHEN

1400-067 G03/07P/D-045 Poster
USE OF STOCHASTICALLY MODIFIED KERNELS IN AUSTRALIAN GRAVIMETRIC GEOID COMPUTATION
Will FEATHERSTONE, Lars SJOBERG

1400-068 G03/07P/D-046 Poster
THE CHAMP DATA FOR GEOID STUDY IN INDONESIAN REGION
Adolfientje KASENDA, Bill KEARSLEY, Av OLESEN

1400-069 G03/07P/D-047 Poster
DEVELOPMENT OF A HIGH RESOLUTION HEIGHT REFERENCE SURFACE FOR GERMANY USING GRAVITY AND GPS/LEVELLING DATA
Heiner DENKER, Johannes IHDE, Juergen MUELLER, Uwe SCHIRMER

1400-070 G03/07P/D-048 Poster
STRATEGIES FOR A NEW EUROPEAN GEOID COMPUTATION
Heiner DENKER, Riccardo BARZAGHI, Rene FORSBERG, Ambrus KENYERES

1400-071 G03/07P/D-049 Poster
IMPROVING LOCAL GEOID MODEL OF TAIWAN USING TWVD2001 GPS/LEVELING DATA
Kwo-Hwa CHEN, Ming YANG, Kun-Shu CHANG

1400-072 G03/07P/D-050 Poster
COMBINING TERRESTRIAL AND MARINE GRAVITY FOR GEOID MODELLING IN VENEZUELA
Gustavo A. ACUNA, Wolfgang BOSCH

1400-073 G03/07P/D-051 Poster
COMPARISON OF NEW GEOID MODELS AND EIGEN-2S IN THE NORTH ATLANTIC REGION
Ove Christian Dahl OMANG, Rene FORSBERG, Gabriel STRYKOWSKI

1400-074 G03/07P/D-052 Poster
RGQG-2003: THE NEW GEOID AND GRAVITY FIELD MODEL FOR TERRITORY OF RUSSIA AND SEA AREAS AROUND RUSSIA
Petr P. MEDVEDEV, V. NEPOKLONOV

1400-075 G03/07P/D-053 Poster
ON THE PRECISE CONVERSION BETWEEN GEOID AND QUASI-GEOID
Shaofeng BIAN, Jianhua XU

1400-076 G03/07P/D-054 Poster
REFINED COMPUTATION OF THE (QUASI)GEOID MODEL FOR COLOMBIA USING THE NEW GRAVITY SATELLITE MISSIONS
Laura SANCHEZ

1400-077 G03/07P/D-055 Poster
NKG-2003 GEOID MODEL OF THE NORDIC AND BALTIC AREA
Rene FORSBERG, Gabriel STRYKOWSKI, Dag SOLHEIM, Harli JURGENSON

1400-078 G03/07P/D-056 Poster
NEW GEOID COMPUTATIONS IN TAIWAN
Gwo-Chyang TSUEI

1400-079 G03/07P/D-057 Poster
SATELLITE-TO-SATELLITE TRACKING IN HIGH-LOW MODE:RELATIONSHIPS AND FEATURES
Rafael A. KASCHEEV

1400-080 G03/07P/D-058 Poster
GOCE GRAVITY FIELD RECOVERY
Hans SUENKEL, Roland PAIL, Peter PESEC

1400-081 G03/07P/D-059 Poster
EVALUATION OF GRAVITY DATA BY EIGEN-1S MODEL IN CHINA
Yang LU, Hongling SHI

1400-082 G03/07P/D-060 Poster
CHAMP GRAVITY FIELD MODEL UCPH2003_01
Carl Christian TSCHERNING, Eva HOWE, Lars STENSENG

1400-083 G03/07P/D-061 Poster
THE IMPACT OF THE NEW MISSIONS DATA IN THE DEVELOPMENT OF FUTURE GRAVITY MODELS
Erricos C. PAVLIS

1400-084 G03/07P/D-062 Poster
AGMAF-03: AN ARCHIVING FORMAT FOR ABSOLUTE GRAVITY MESUREMENTS
Jean-Pierre BARRIOT, Michel SARRAILH, Jacques LIARD, Gerd BOEDECKER

1400-085 G03/07P/D-063 Poster
COMPARISON OF DIFFERENT DOWNWARD CONTINUATION METHODS OF AIRBORNE GRAVIMETRY DATA
Felix MUELLER

1400-086 G03/07P/D-064 Poster
EFFICIENT CALCULATION OF TOPOGRAPHIC REDUCTIONS BY THE USE OF TESSEROIDS
Kurt SEITZ, Bernhard HECK

1400-087 G03/07P/D-065 Poster
NATIONAL REPORT ON THE STATUS OF THE RECOMPUTATION OF PRECISES LEVELLING OF IRAN
Rohallah KARIMI, Alireza A. ARDALAN, Farrokh TAVAKOLI

1400-088 G03/07P/D-066 Poster
DISCUSSION OF BOUGUER ANOMALY
Petr VANICEK, Robert TENZER, Lars E. SJOBERG, Zdenek MARTINEC

1400-089 G03/07P/D-067 Poster
RIGOROUS ORTHOMETRIC HEIGHT
Petr VANICEK, Robert TENZER, Marcelo SANTOS

1400-090 G03/07P/D-068 Poster
GRACE LEVEL-1 DATA PROCESSING
Gerhard L. KRUIZINGA, William I. BERTIGER, Kelley E. CASE, Christopher J. FINCH, Larry J.ROMANS, Michael M. WATKINS, Sien C. WU

1400-091 G03/07P/D-069 Poster
THE QUASI-GEOID OF SOUTH AMERICA AFTER ONE DECADE OF IMPROVEMENT ON THE DATA
Denizar BLITZKOW, Ana Cristina Cancorro MATOS, Maria Cristina LOBIANCO, Carlos Alberto Correia CASTRO JR.

1400-092 G03/07P/D-070 Poster
GEOIDAL MODEL OBTAINED BY MULTILAYER PERCEPTION NEURAL NETWORK
Paulo Cesar Lima SEGANTINE, Tule Cesar Barcelos MAIA

- 1400-093 G03/07P/D-071 Poster**
ANALYTIC FORMULAS FOR THE GRAVITATIONAL GRADIENTS GENERATED BY TRIANGULAR VERTICAL PRISMS WITH SLOPED TOPS
Christopher JEKELI, Puttipol DUMRONGCHAI
- 1400-094 G03/07P/D-072 Poster**
VECTOR AIRBORNE GRAVIMETRY FOR IMPROVED GEOID DETERMINATION
Juan Gilberto SERPAS, Christopher JEKELI
- 1400-095 G03/07P/D-073 Poster**
DETERMINATION OF INDONESIAN GRAVITY FIELD FROM COMBINATION OF SATELLITE ALTIMETER, SURFACE GRAVITY AND DIGITAL TERRAIN MODEL DATA
Leni S. HELIANI
- 1400-096 G03/07P/D-074 Poster**
CHALLENGING THE LIMIT IN THE DEVELOPMENT OF A SUPER HIGH RESOLUTION EARTH GRAVITY FIELD MODEL
Kefei ZHANG, Yang LU, Rod DEAKIN, Norm EDWARDS
- 1400-097 G03/07P/D-075 Poster**
THE AUSTRIAN GEOIDRECENT STEPS TO A NEW SOLUTION
Norbert KUEHTREIBER, Bernhard HOFMANN-WELLENHOF, Erhard ERKER, Norbert HÖGGERL, Erich IMREK
- 1400-098 G03/07P/D-076 Poster**
TOPEX ALTIMETRIC MEAN SEA LEVEL AND GRAVIMETRIC GEOID ON THE NORTH OF ALGERIA
Salem KAHLOUCHE, Ali RAMI, Sid Ahmed BENAHMED DAHO

G04 Monday, July 7 PM
GENERAL THEORY AND METHODOLOGY. MEETING OF IAG SECTION IV
Location: Site C, Room 25

Convener: B. Heck
Presiding Chairs: B. Heck, P. Xu

- 1430 G04/07P/C25-001**
ON TOTAL LEAST-SQUARES ADJUSTMENT WITH CONSTRAINTS
Burkhard SCHAFFRIN, Yaron FELUS
- 1450 G04/07P/C25-002**
NONLINEAR FILTERING OF CONTINUOUS SYSTEMS: FOUNDATIONAL PROBLEMS AND NEW RESULTS
Peiliang XU
- 1510 G04/07P/C25-003**
GNSS BEST INTEGER EQUIVARIANT ESTIMATION
Peter J.G. TEUNISSEN
- 1530 G04/07P/C25-004**
SENSITIVITY ANALYSIS FOR GNSS INTEGER CARRIER PHASE AMBIGUITY VALIDATION TEST
Jinling WANG, Hung-Kyu LEE, Steve HEWITSON, Chris RIZOS, Joel BARNES
- 1550 BREAK**
- 1610 SSG 4.190 REPORT**
- 1620 G04/07P/C25-005**
GPS ON-THE-FLY AMBIGUITY SEARCH BY FUZZY-LOGIC MULTI-CRITERIA DECISION MAKING TECHNIQUE
Stefan LEINEN
- 1640 G04/07P/C25-006**
PARAMETRIC VERSUS NON-PARAMETRIC METHODS FOR OPTIMAL WEIGHTED AVERAGING OF NOISY DATA SETS
Christopher KOTSAKIS, Ilias N. TZIAVOS
- 1700 G04/07P/C25-007**
THE STATISTICAL INFERENCE OF EIGENSPACE COMPONENTS OF A SYMMETRIC RANDOM DEFORMATION TENSOR
Jianqing CAI, Erik W. GRAFAREND
- 1720 G04/07P/C25-008**
SAMPLING-BASED STATISTICAL INFERENCE FOR HIGH-RESOLUTION GRAVITY MODELS
Juergen KUSCHE, Karl-Rudolf KOCH, Brigitte GUNDLICH
- 1740 G04/07P/C25-009**
SYNTHETICALLY ADAPTIVE ROBUST FILTERING FOR SATELLITE ORBIT DETERMINATION
Yuanxi YANG, Yuanlan WEN



GAll.04 Monday, July 7 PM

LIGHTNING-INDUCED TRANSIENT PROCESSES IN THE MIDDLE AND UPPER ATMOSPHERE AND THEIR IMPACT ON THE EARTH SYSTEM

Location: Site A, Room 8

Presiding Chairs: V.P. Pasko, M. Fuellekrug

- 1400 GAll.04/07P/A08-001 Invited**
COMPARISON OF TEMPORAL DECAYS OF DYNAMIC AND STATIONARYSPRITE FEATURES BASED ON 1-MS RESOLUTION OBSERVATIONS OF SPRITES
Dana MOUDRY, Hans C. STENBAEK-NIELSEN, Dave D. SENTMAN
- 1425 GAll.04/07P/A08-002 Invited**
THE SPECTROSCOPY AND ENERGETICS OF RED SPRITES
Jeff Stanley MORRILL
- 1450 GAll.04/07P/A08-003**
MINIMUM ELECTRIC FIELDS REQUIRED FOR PROPAGATION OF POSITIVE AND NEGATIVE STREAMERS IN SPRITES
Ningyu LIU, Victor P. PASKO
- 1505 GAll.04/07P/A08-004**
FULL WAVE ANALYSIS OF ELVES CREATED BY LIGHTNING-GENERATED EMP
Satoshi YAGITANI, Isamu NAGANO, Kazutoshi MIYAMURA, Satoshi MAKINO, Yoichi NAKAMURA

1520 BREAK

- 1540 GAll.04/07P/A08-005 Invited**
THE RESULTS FROM THE 1999 SPRITES BALLOON CAMPAIGN
Edgar Andrew BERING, III, Lekhnath BHUSAL, James R. BENBROOK, Jonathon A. GARRETT, Amy M.P.JACKSON, Eugene M. WESCOTT, Dana R. MOUDRY, Davis D. SENTMAN, Hans C. STENBAEK-NIELSEN, Walter A. LYONS
- 1605 GAll.04/07P/A08-006 Invited**
ELECTRODYNAMICS OVER SPRITE PRODUCING STORMS
Robert H. HOLZWORTH, Michael P. MCCARTHY, Timothy M. CHINOWSKY, Jeremy N. THOMAS, Michael J. TAYLOR, Dominique PAUTET, Osmar PINTO, JR., Iara PINTO
- 1630 GAll.04/07P/A08-007**
STUDIES ON HYBRID TWEED MODE WAVE
Koji KAWAKITA, Takeo YOSHINO
- 1645 GAll.04/07P/A08-008**
SPATIAL SELECTIVITY OF THUNDERSTORM ACTIVITY (IMPACT OF LITHOSPHERE)
Igor Ivanovich ROKITYANSKY
- 1700 GAll.04/07P/A08-009**
THIN WIRE REPRESENTATION OF A VERTICAL CONDUCTOR AND ANALYSIS OF ITS SURGE RESPONSE
Osman Md GONI, Hideomi TAKAHASHI, Eiji KANEKO
- 1715 GAll.04/07P/A08-010**
PROJECT OF MICROSATELLITE TARANIS
Elisabeth BLANC

GAll.05-Posters Monday, July 7 PM

WHAT ARE THE STRUCTURES IN THE MAGNETOTAIL, WHY ARE THEY THERE, AND HOW DO THEY INFLUENCE ITS DYNAMICS

Location: Site D

- 1400-099 GAll.05/07P/D-001 Poster**
A SELF-CONSISTENT TWO DIMENSIONAL CONFIGURATION FOR THE MAGNETOTAIL
Devashis BANERJEE, Gurbax Singh LAKHINA, Satyavir SINGH
- 1400-100 GAll.05/07P/D-002 Poster**
3D FORCE-BALANCED MAGNETOSPHERIC STRUCTURES
Sorin G. ZAHARIA, C.Z. CHENG
- 1400-101 GAll.05/07P/D-003 Poster**
MAGNETOTAIL ASSIMILATION MODEL
Simon WING, Patrick T. NEWELL

1400-102	GAIII.05/07P/D-004	Poster
ENHANCEMENT OF PLASMA SHEET DENSITIES DURING LOW-DENSITY SOLAR WIND INTERVALS Masaki N. NISHINO, Toshio TERASAWA, Masahiro HOSHINO, Masaki FUJIMOTO, Toshifumi MUKAI, Yasumasa KASABA, Hirotosugu KOJIMA, Hiroshi MATSUMOTO		
1400-103	GAIII.05/07P/D-005	Poster
THE SPATIAL DISTRIBUTION AND TEMPORAL VARIATION OF THE TOTAL PRESSURE IN THE DISTANT MAGNETOTAIL Ayako MATSUOKA		
1400-104	GAIII.05/07P/D-006	Poster
SLOW MHD WAVES AND DIAMAGNETIC PROCESSES IN THE MAGNETOTAIL PLASMA SHEET Aoi NAKAMIZO, Takesi IJIMA		
1400-105	GAIII.05/07P/D-007	Poster
FAST FLOWS AND COMPRESSIONAL WAVES IN THE MAGNETOTAIL Martin VOLWERK, Rumi NAKAMURA, Wolfgang BAUMJOHANN, Andrei RUNOV, Zoltan VOROS, Tielong ZHANG, Karl-Heinz GLASSMEIER, Rudolf TREUMANN, Berndt KLECKER, Andre BALOGH, Henri REME		
1400-106	GAIII.05/07P/D-008	Poster
CHARACTERISTICS OF ENERGY-DISPERSED ION SIGNATURES IN THE PLASMA SHEET OBSERVED BY GEOTAIL Yoichi KAZAMA, Toshifumi MUKAI		
1400-107	GAIII.05/07P/D-009	Poster
ANALYSIS OF THE GEOTAIL CLOSE ENCOUNTER DATA WITH THE MAGNETIC NEUTRAL LINE UTILIZING THE GENERALIZED OHM'S LAW Shinobu MACHIDA, Tsugunobu NAGAI, Masahiro HOSHINO, Masaki FUJIMOTO, Iku SHINOHARA, Yoshifumi SAITO, Toshifumi MUKAI		
1400-108	GAIII.05/07P/D-010	Poster
ELECTRIC AND MAGNETIC FIELD FLUCTUATIONS IN THE NEAR-EARTH MAGNETOTAIL ASSOCIATED WITH DIPOLARIZATIONS: GEOTAIL OBSERVATIONS Yukinaga MIYASHITA, Shinobu MACHIDA, Yohsuke KAMIDE, Toshifumi MUKAI, Yoshifumi SAITO, Hajime HAYAKAWA, Koichiro TSURUDA		
1400-109	GAIII.05/07P/D-011	Poster
STATISTICAL ANALYSIS OF THE RESPONSE OF THE SYNCHRONOUS MAGNETIC FIELD TO SUBSTORM EXPANSIONS Tung-Shin HSU, Robert L. MCPHERRON		
1400-110	GAIII.05/07P/D-012	Poster
FORMATION OF THE SUBSTORM CURRENT WEDGE INSIDE OF THE GEOSYNCHRONOUS ORBIT: A CASE STUDY OF THE MAY 27, 1997, STORM-TIME SUBSTORM Tetsuya SHIRAIISHI, Hideaki KAWANO, Kiyohumi YUMOTO, Akira MORIOKA		
1400-111	GAIII.05/07P/D-013	Poster
VALIDITY OF THE FLUID DESCRIPTION OF CRITICAL BETA AND ALFVEN TIME SCALE OF BALLOONING INSTABILITY ONSET IN THE NEAR-EARTH COLLISIONLESS HIGH-BETA PLASMA Akira MIURA		
1400-112	GAIII.05/07P/D-014	Poster
TAILWARD PERPENDICULAR FLOWS IN THE NEAR-EARTH PLASMA SHEET AROUND SUBSTORMS Rui YAMAGUCHI, Hideaki KAWANO, Shinichi OHTANI, Kiyohumi YUMOTO, Kan LIOU, Ching MENG, Toshifumi MUKAI, Yoshifumi SAITO, Hajime HAYAKAWA, the CPMN Group		
1400-113	GAIII.05/07P/D-015	Poster
CHARACTERISTICS OF THE GROUND MAGNETIC VARIATIONS AT LOW AND MIDDLE LATITUDE ASSOCIATED WITH THE SAWTOOTH EVENT ON APRIL 18, 2002 Kentarou KITAMURA, Hideaki KAWANO, Shin-ichi OHTANI, Akimasa YOSHIKAWA, Kiyohumi YUMOTO, the CPMN Group		
1400-114	GAIII.05/07P/D-016	Poster
CHARACTERISTICS OF IONOSPHERIC ECHOES WITH VERY NARROW SPECTRAL WIDTH OBSERVED BY THE SUPERDARN HF RADARS DURING GEOMAGNETICALLY ACTIVE PERIODS Nozomu NISHITANI, Tadahiko OGAWA, Mark LESTER, Steve E. MILAN, Jim WILD, Stanley W.H. COWLEY, Natsuo SATO, Hisao YAMAGISHI, Akira Sessai YUKIMATU		
1400-115	GAIII.05/07P/D-017	Poster
MAGNETOTAIL STRETCHING AS A DIAGNOSTIC TOOL FOR AURORAL SUBSTORM ENERGY DEPOSITION Ching-I MENG, Kan LIOU, Patrick T. NEWELL		
1400-116	GAIII.05/07P/D-018	Poster
AURORAL POLEWARD BOUNDARY INTENSIFICATIONS: THEIR TWO-DIMENSIONAL STRUCTURE AND THE ASSOCIATED DYNAMICS IN THE PLASMA SHEET Eftyhia ZESTA, Larry R. LYONS, Eric DONOVAN, Harald U. FREY, Tsugunobu NAGAI		

1400-117	GAIII.05/07P/D-019	Poster
TWO TYPES OF PSBL ION BEAMS OBSERVED BY GEOTAIL: THEIR RELATION TO LOW FREQUENCY ELECTROMAGNETIC WAVES AND COLD ION ENERGIZATION Taku TAKADA, Kanako SEKI, Masafumi HIRAHARA, Toshio TERASAWA, Masahiro HOSHINO, Toshifumi MUKAI		
1400-118	GAIII.05/07P/D-020	Poster
CLUSTER RAPID IES OBSERVATIONS OF HIGH-ENERGY ELECTRONS IN THE MAGNETOTAIL Jackie A. DAVIES, Malcolm W. DUNLOP, Manuel GRANDE, Chris H. PERRY, Martin K. CARTER, Pat W. DALY, Andre BALOGH		
1400-119	GAIII.05/07P/D-021	Poster
Z-MODE WAVE IN THE MAGNETOTAIL : GEOTAIL OBSERVATION Hironobu TAKANO, Isamu NAGANO, Satoshi YAGITANI, Yasuhiro OKUDA, Kozo HASHIMOTO, Hiroshi MATSUMOTO		
1400-120	GAIII.05/07P/D-022	Poster
KELVIN-HELMHOLTZ TYPE MODES DRIVEN BY OXYGEN IONS IN PLASMA SHEET REGION A.P. KAKAD, S.V. SINGH, G.S. LAKHINA		

GAIII.06-Posters
Monday, July 7 PM

HOW IS THE INNER MAGNETOSPHERE DYNAMICALLY COUPLED TO OTHER REGIONS OF GEOSPACE?
Location: Site D

Convener: T. Obara

1400-121	GAIII.06/07P/D-001	Poster
A NUMERICAL SIMULATION OF A GEOMAGNETIC SUDDEN COMMENCEMENT Shigeru FUJITA, Takashi TANAKA, Takashi KIKUCHI		
1400-122	GAIII.06/07P/D-002	Poster
MORPHOLOGY OF THE RING CURRENT DERIVED FROM IN-SITU MAGNETIC FIELD OBSERVATIONS Guan LE, C.T. RUSSELL, K. TAKAHASHI		
1400-123	GAIII.06/07P/D-003	Poster
INFLUENCE OF SUBSTORMS AND STORMS IN THE SAR ARC DYNAMICS. STATISTICAL ANALYSIS Igor B. IEVENKO, Valery N. ALEXEYEV		
1400-124	GAIII.06/07P/D-004	Poster
WHAT IS HILDCAAS? Kazuya YAGO, Yohsuke KAMIDE		
1400-125	GAIII.06/07P/D-005	Poster
A COMPARISON BETWEEN TAIL AND LOW ALTITUDE OBSERVATIONS DURING A LONG PERIOD OF ENHANCED GEOMAGNETIC ACTIVITY Rune STADSNES, Knut SVENES, Kjell AARSNES, Finn SOERAAS, Kjellmar OKSAVIK, Marita SOERBOE, Marit Irene SANDANGER, Kjartan OLAFSSON		
1400-126	GAIII.06/07P/D-006	Poster
DOMINANCE OF TOROIDAL OSCILLATIONS IN DAWN/DUSK SECTORS- A PLAUSIBLE EXPLANATION IN TERMS OF VARIATIONS IN SOLAR WIND DYNAMIC PRESSURE Ashwini Kumar SINHA		
1400-127	GAIII.06/07P/D-007	Poster
A TEST OF THE MAGNETOSPHERIC SOURCE OF TRAVELLING CONVECTION VORTICES Mai Mai LAM, Alan S. RODGER		
1400-128	GAIII.06/07P/D-008	Poster
ENERGETIC ION INJECTION AND FORMATION OF THE STORM-TIME RING CURRENT L. XIE, Z.Y. PU, X.Z. ZHOU, S.Y. FU, Q.G. ZONG, T.A. FRITZ, Z.X. LIU		
1400-129	GAIII.06/07P/D-009	Poster
STUDY OF THE DST-AL CORRELATION DURING MAGNETIC STORMS Fiori-Anastasia I. METALLINO, Ioannis A. DAGLIS, Yohsuke KAMIDE		
1400-130	GAIII.06/07P/D-010	Poster
A STRATEGY FOR FUTURE EXPLORATION INTO DYNAMICS OF THE INNER MAGNETOSPHERE Kazuo SHIOKAWA, Kanako SEKI, Yoshizumi MIYOSHI, Takayuki ONO, Tsutomu NAGATSUMA, Takahiro OBARA, Masahito NOSE, Yoshiya KASAHARA, Masafumi HIRAHARA, Takeshi TAKASHIMA, Kazushi ASAMURA		
1400-131	GAIII.06/07P/D-011	Poster
MULTI-POINT MEASUREMENTS OF PLASMA DRIFTS AND DENSITIES NEAR THE PLASMAPAUSE Harri E. LAAKSO, A. MASSON, P. ESCOUBET, R. GRARD, F. PITOUT		
1400-132	GAIII.06/07P/D-012	Poster
GLOBAL 3D ELECTROMAGNETIC PARTICLE SIMULATION FOR SATELLITE OBSERVED SASH EVENT Xiaoyang YAN		

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1400-133	GAI.06/07P/D-013	Poster
STORMTIME MAGNETOSPHERIC ELECTRIC FIELD MODELING USING ION DRIFT MEASUREMENTS IN THE IONOSPHERE Phillip Charles ANDERSON		
1400-134	GAI.06/07P/D-014	Poster
CAN THE SURFACE-IONOSPHERE WAVEGUIDE TRANSMIT CONVECTION CHANGES TO LOW LATITUDES? Robert J. STRANGWAY		
1400-135	GAI.06/07P/D-015	Poster
TSUBASA(MDS-1) OBSERVATIONS OF HIGH-ENERGY CHARGED PARTICLES IN THE MAGNETOSPHERE Kiyokazu KOGA, Haruhisa MATSUMOTO, Hideki KOSHIISHI, Hitoshi MATSUOKA, Masao NAKAMURA		
1400-136	GAI.06/07P/D-016	Poster
SC TRIGGERED PLASMA WAVE AND FIELD PHENOMENA OBSERVED BY THE AKEBONO SATELLITE IN THE PLASMASPHERE Atsuki SHINBORI, Takayuki ONO, Masahide IIZIMA, Atsushi KUMAMOTO, Hiroshi OYA		
1400-137	GAI.06/07P/D-017	Poster
KILOMETRIC RADIATION ASSOCIATED WITH PLASMASPHERIC DISTURBANCES Manabu SATO, Takayuki ONO, Masahide IIZIMA, Hiroshi OYA, Atsushi KUMAMOTO		
1400-138	GAI.06/07P/D-018	Poster
SOLAR WIND - PLASMASPHERE - IONOSPHERE COUPLING DURING GEOMAGNETIC STORMS Galina A. KOTOVA, V. BEZRUKIKH, M. VERIGIN, L. LEZHEN, J. SMILAUER, J. LEMAIRE		
1400-139	GAI.06/07P/D-019	Poster
MEASUREMENTS OF THE SAPCE RADIATION ENVIRONMENT WITH SDOM Haruhisa MATSUMOTO, Hideki KOSHIISHI		
1400-140	GAI.06/07P/D-020	Poster
MOLECULAR ION OBSERVED BY AKEBONO SATELLITE NEAR THE INNER MAGNETOSPHERE Manabu YAMADA, Shigeto WATANABE, Takumi ABE, Yoshizumi MIYOSHI, Eiichi SAGAWA, A.W. YAU		

GAI.14	Monday, July 7 PM
HOW DO THE MAGNETOSPHERES OF OTHER PLANETS AND THEIR SATELLITES COMPARE WITH THE EARTH'S MAGNETOSPHERE?	
Location: Site A, Room 12	

Presiding Chair: K. Khurana

1400	GAI.14/07P/A12-001	
THE MAGNETOSPHERES OF JUPITER AND THE EARTH: A COMPARATIVE ASSESSMENT Margaret G. KIVELSON		
1430	GAI.14/07P/A12-002	
MAGNETOSPHERE-IONOSPHERE COUPLING CURRENTS IN JUPITER'S MIDDLE MAGNETOSPHERE Jonathan D. NICHOLS, Stan W.H. COWLEY, Emma J. BUNCE		
1445	GAI.14/07P/A12-003	
DIPOLAR MAGNETOSPHERES: CHARACTERIZATION AND SCALES Nick OMIDI, Homa KARIMABADI, X. BLANCO-CANO, Christopher RUSSELL		
1500	GAI.14/07P/A12-004	
EXTERNAL AND INTERNAL CONTROL OF THE MAGNETOSPHERIC CONFIGURATIONS AND DYNAMICS AT THE EARTH AND JUPITER Raymond John WALKER, Tatsuki OGINO		
1515	GAI.14/07P/A12-005	
PARTICLE MOTION IN JUPITER'S MAGNETOSPHERE COMPARED TO THE EARTH'S CASE Norbert KRUPP, Joachim WOCH, Andreas LAGG, Krishan KHURANA		
1540	BREAK	
1600	GAI.14/07P/A12-006	Invited
PLASMA SOURCES FOR SATURN'S MAGNETOSPHERE john d RICHARDSON, Slobodan JURAC		
1625	GAI.14/07P/A12-007	Invited
PLANETARY AURORAE Renée M. PRANGE, Philippe ZARKA		
1650	GAI.14/07P/A12-008	
COMPARISON OF AURORAL PROCESSES ON JUPITER AND THE EARTH John T. CLARKE		

1705	GAI.14/07P/A12-009
SPECTRUM OBSERVATION OF JUPITER'S SYNCHROTRON RADIATION AT THE FREQUENCIES OF 325, 929 AND 2295MHZ Hiroaki MISAWA, Fuminori TSUCHIYA, Yoshizumi MIYOSHI, Akira MORIOKA, Tetsuro KONDO	
1720	GAI.14/07P/A12-010
ON THE ORIGIN OF THE POLARIZATION CHARACTERISTICS OF JUPITER'S DECA-METRIC RADIATION Hiroaki MISAWA	
1735	GAI.14/07P/A12-011
ELECTRIC FIELDS IN THE JUPITER'S MAGNETOSPHERE (COMPARISON WITH THE CASE OF THE EARTH) Elena Semenovna BELENKAYA	

GAIV.02	Monday, July 7 PM
COUPLING COMPLEXITY IN THE HELIOSPHERE	
Location: Site A, Room 7	

Presiding Chairs: R. Winglee, H. Washimi

1400	GAIV.02/07P/A07-001
MULTI-FLUID SIMULATIONS OF PLANETARY MAGNETOSPHERES Robert M. WINGLEE, Erika HARNETT, Carol PATY	
1440	GAIV.02/07P/A07-002
THE PERIODICITIES OF SOLAR FLARES AND CORONAL MASS EGECTIONS DURING SOLAR CYCLE 23 Ahmed Abdel HADY	
1510	GAIV.02/07P/A07-003
THE EARTH'S BOW SHOCK AS A NONLINEAR PARTICLE ACCELERATOR Toshio TERASAWA, Hirotomo NODA, Mitsuo OKA, Yoshifumi SAITO, Toshifumi MUKAI	
1540	BREAK
1600	GAIV.02/07P/A07-004
RADIO EMISSIONS ASSOCIATED WITH SHOCKS: COUPLING MICROPHYSICS WITHMACROPHYSICS Iver H. CAIRNS, Peter A. ROBINSON, Stuart A. KNOCK, Zdenka KUNCIC, Jeremy J. MITCHELL	
1640	GAIV.02/07P/A07-005
ON THE RADIAL HELIOSPHERIC MAGNETIC FIELDS: VOYAGER 2 OBSERVATION AND MODEL Chi WANG, J.D. RICHARDSON, L.F. BURLAGA, N.F. NESS	
1710	GAIV.02/07P/A07-006
FULL PARTICLE SIMULATIONS OF QUASI-PARALLEL SHOCKS AND SLAMS FORMATION: A PARAMETRIC STUDY Ken TSUBOUCHI, Bertrand LEMBEGE	

GAV.04	Monday, July 7 PM
INTERNATIONAL DECADE OF GEOPOTENTIAL FIELD RESEARCH: FIRST FIVE YEARS - ADVANCES IN THE UNDERSTANDING THE GEOMAGNETIC FIELD (SEDI)	
Location: Site A, Room 11	

Presiding Chairs: J. Schwarte, S. Maus

1400	GAV.04/07P/A11-001	Invited
THE CONTRIBUTION OF MAGNETIC ANOMALIES TO UNDERSTANDING TECTONIC EVOLUTION AND CRUSTAL STRUCTURE Colin V. REEVES		
1430	GAV.04/07P/A11-002	
DEPTH OF THE MAGNETIC CRUST IN THE INDIAN SUBCONTINENT Mita RAJARAM, Anand P. SASHIDHARAN		
1450	GAV.04/07P/A11-003	
3D GLOBAL INDUCTION EFFECTS ON GEOMAGNETIC FIELD VARIATIONS INFERRED FROM THE RESPONSE TO RING CURRENT AND AURORAL OVAL EXCITATION Ikuko FUJII, Adam SCHULTZ		
1510	GAV.04/07P/A11-004	
USING SATELLITE MAGNETIC DATA FOR PROBING THE ELECTRICAL STRUCTURE OF THE EARTH Pascal TARITS		
1530	GAV.04/07P/A11-005	
ELECTRIC AND MAGNETIC FIELDS GENERATED BY OCEAN FLOW Robert H. TYLER		
1550	BREAK	

- 1610 GAV.04/07P/A11-006 Invited**
CORE DYNAMICS REVEALED BY SPACE MAGNETIC OBSERVATIONS
Gauthier HULOT
- 1640 GAV.04/07P/A11-007**
SHORT-PERIOD SECULAR VARIATION AND CORE DYNAMICS
Jeremy BLOXHAM, Mathieu DUMBERRY
- 1700 GAV.04/07P/A11-008**
CHAOS IN THE PRESENT EARTH MAGNETIC FIELD: A SYMPTOM THAT A REVERSAL IS IN PROGRESS?
Angelo DE SANTIS, Tozzi ROBERTA, Luis R. GAYA-PIQUE'
- 1720 GAV.04/07P/A11-009**
MAGNETIC FIELD SECULAR VARIATION: THE SATELLITE PERSPECTIVE
Benoit LANGLAIS
- 1740 GAV.04/07P/A11-010**
GLOBAL SPACE-TIME MODELLING OF THE GEOMAGNETIC FIELD UTILIZING NOISY DATA
Vadim P. GOLOVKOV, Tatiana N. BONDAR, Svetlana V. YAKOVLEVA

GAV.07

Monday, July 7 PM

MAGNETIC ANOMALIES AND ROCK PROPERTIES

Location: Site A, Room 13

Convener: V.J.S. Grauch
Co-Convener: M.-L. Airo
Presiding Chair: V.J.S. Grauch

- 1400 GAV.07/07P/A13-001**
CAN WE ESTIMATE TOTAL MAGNETIZATION DIRECTIONS FROM AEROMAGNETIC DATA USING HELBIG'S FORMULAS?
Jeffrey D. PHILLIPS
- 1420 GAV.07/07P/A13-002**
HIGH RESOLUTION DATING OF THE SEAFLOOR 40 YEARS AFTER VINE & MATTHEWS: INSIGHTS FROM MAGNETIC ANOMALIES, ROCK MAGNETIC PROPERTIES, AND PALEOINTENSITY MEASUREMENTS ACROSS THE CENTRAL INDIAN RIDGE, 19°S
Jérôme DYMENT, Annick CHAUVIN, Helene HOREN, Mitsuko KITAZAWA, Christophe HÉMOND
- 1440 GAV.07/07P/A13-003**
SUBSURFACE STRUCTURE OF THE KITAKAMI PLUTONES, NORTHEAST JAPAN, CONSTRAINED BY PETROPHYSICAL AND GEOPHYSICAL DATA
Shigeo OKUMA, Hiroshi KANAYA
- 1500 GAV.07/07P/A13-004**
RELATION OF MAGNETIC ROCK PROPERTIES TO AEROMAGNETIC CHARACTERISTICS OF AN ARCHEAN TTG-MIGMATITE AND GNEISS AREA, THE NORTHERN FENNOSCANDIAN SHIELD
Meri-Liisa AIRO
- 1520 GAV.07/07P/A13-005**
AEROMAGNETICS- A DIRECT TOOL FOR THE DISCOVERY OF CARBONATITE PLUGS IN NORTHEASTERN INDIA
Ram Babu Venkata HARI

1540 BREAK

- 1600 GAV.07/07P/A13-006**
GROUND MAGNETIC STUDIES OVER DECCAN VOLCANIC PROVINCE, MAHARASHTRA, INDIA
Vinit C. ERRAM, Mita RAJARAM, Anand P. SASHIDHARAN
- 1620 GAV.07/07P/A13-007**
MAGNETIC SURVEYS IN SABZEVAR OPHIOLITIC ZONE, IRAN
Abolghasem KAMKAR-ROUHANI
- 1640 GAV.07/07P/A13-008**
RECOGNITION OF MAGNETIC ANOMALIES ASSOCIATED WITH ORE DEPOSITS USING GIS IN MAHNESHAN REGION, IRAN
Abolghasem KAMKAR-ROUHANI
- 1700 GAV.07/07P/A13-009**
USING ROCK PROPERTY MEASUREMENTS TO UNDERSTAND AEROMAGNETIC ANOMALIES RELATED TO INTRABASIN FAULTS: A CASE STUDY FROM THE CENTRAL RIO GRANDE RIFT, USA
V.J.S. GRAUCH, Mark R. HUDSON, Scott A. MINOR, Jonathan S. CAINE

GAV.07-Posters

Monday, July 7 PM

MAGNETIC ANOMALIES AND ROCK PROPERTIES

Location: Site D

- 1400-142 GAV.07/07P/D-001 Poster**
MAGNETIZATION OF OCEANIC CRUST SUBDUCTING BENEATH THE JAPAN TRENCH
Yumiko NODA, Toshiya FUJIWARA, Yukari KIDO

- 1400-143 GAV.07/07P/D-002 Poster**
MARINE MAGNETIC ANOMALIES FOR SHIKOKU BASIN, NANKAI TROUGH
Yukari N. KIDO, Toshiya FUJIWARA
- 1400-144 GAV.07/07P/D-003 Poster**
MAGNETIC SIGNATURES OVER FOUR SEDIMENTARY BASINS OF EASTERN CONTINENTAL MARGIN OF INDIA
Vinit C. ERRAM, Mita RAJARAM, Anand P. SASHIDHARAN
- 1400-145 GAV.07/07P/D-004 Poster**
MAGNETIC AND ELECTRICAL STUDY IN ARCHEOLOGICAL SURVEY: THE FOX-AMPHOUX SITE (FRANCE).
Daniel HERMITTE, Pierre-Etienne MATHE, Andre REVIL, Ginette SARACCO
- 1400-146 GAV.07/07P/D-005 Poster**
MAGNETIC PROPERTIES OF OIL-GAS-BEARING ROCKS OF THE CENTRAL PART OF DNIPER-DONETSK TROUGH
Roman KUDERAVETS, Valentyn MAKSYMCHUK, Jurij GORODISKY



HS02-Oral-Posters

Monday, July 7 PM

WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)

Location: Site C, Room 24

Presiding Chair: G. Bloeschl

- 1400 HS02/07P/C24-0170P Oral-Poster**
INFLUENCE OF CLIMATE WARMING ON ASIAN LAKES FROM VIEW POINTS OF WATER RESOURCES
Hiroji FUSHIMI
- 1404 HS02/07P/C24-0180P Oral-Poster**
APPLICATION OF WATER BALANCE MODEL FOR REVEALING OF HIDDEN CYCLES IN THE CHANGES OF CHARACTERISTICS OF ENCLOSED LAKES (CASPIAN SEA AS A CASE STUDY)
Alexey Vladimirovich BABKIN
- 1408 HS02/07P/C24-0190P Oral-Poster**
INDUSTRIAL WASTE WATER IMPACT ON WATER QUALITY OF ZARAVSHAN RIVER, UZBEKISTAN
Marina Stanislavovna MOLODOVSKAYA, Raisa V. TORYANNIKOVA, Nariman M. UMAROV
- 1412 HS02/07P/C24-0200P Oral-Poster**
STATUS, TENDENCY AND PROBLEMS OF TRANSBOUNDARY WATER QUALITY MANAGEMENT IN ARAL SEA BASIN
Raisa V. TARYANNIKOVA, Marina S. MOLODOVSKAYA
- 1416 HS02/07P/C24-0210P Oral-Poster**
STUDY ON THE MODELING METHOD OF LAND WATER QUANTITY AND QUALITY AND ECOLOGY COUPLING SYSTEM
Ge TAN, Qiting ZUO, Jun XIA
- 1420 HS02/07P/C24-0220P Oral-Poster**
SOIL DEGRADATION OF JAVA ISLAND
Seno ADI
- 1424 HS02/07P/C24-0230P Oral-Poster**
ASSESSMENT OF THE IMPACT OF INDUSTRIAL EFFLUENTS ON WATER QUALITY IN KORBA AND ENVIRONS, CHHATISGARH, INDIA
L.P. CHOURASIA
- 1428 HS02/07P/C24-0240P Oral-Poster**
WATER QUALITY IN NORTHERN KARNATAKA, INDIA - A CASE STUDY
Ramaraju Hanumanahalli KAMBADARANGAPPA, Rajkamal, Prasanna Kumar N. S., Ranganna G.
- 1432 HS02/07P/C24-0250P Oral-Poster**
INTEGRATING HIGH RESOLUTION SATELLITE IMAGERY AND WATER QUALITY STATISTICS FOR WATER RESOURCE MANAGEMENT
Nandani Dhammika Kumari DAYAWANSA
- 1436 HS02/07P/C24-0260P Oral-Poster**
SEASONAL VARIATION IN WATER QUALITY IN ORLE RIVER BASIN, S.W. NIGERIA 2 CHEMICAL HYDROLOGY
Catherine Imhangulaya IKHILE, Stella Maris AKHIONBARE
- 1440 HS02/07P/C24-0270P Oral-Poster**
CONCENTRATIONS OF URANIUM IN SURFACE WATER IN QINGHAI-TIBET PLATEAU
Yuefang LI, Tandong YAO, Lide TIAN, Wusheng YU, Jianchen PU
- 1444 HS02/07P/C24-0280P Oral-Poster**
ISOTOPIC EVALUATION OF GROUNDWATER SYSTEMS FOR RISK ASSESSMENT AND MANAGEMENT DURING EXTREME EVENTS
Partha Sarathi DATTA, Sunil Kumar TYAGI

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1448	HS02/07P/C24-0290P	Oral-Poster
GROUNDWATER ISSUES IN PONDICHERY COASTAL ZONE , INDIA S.S.SUNDARVEL RAGASAKTHI		
1452	HS02/07P/C24-0300P	Oral-Poster
THE STUDY FOR GROUNDWATER RESOURCES SYSTEM OF CHINA WITH THREE-RATED APPRAISING METHOD OF SUBAREA huajun hua LOU, Hong Hong WANGHONG, Jun Jun XIAJUN, XianFang Xian SONG		
1456	HS02/07P/C24-0310P	Oral-Poster
ACID RAIN AND GROUNDWATER QUALITY Roald Gamidovich DZHAMALOV		
1500	HS02/07P/C24-0320P	Oral-Poster
HYDROGEOLOGICAL ANDHYDROGEOCHEMICAL ASPECTS OF THE NUBIAN SANDSTONE AQUIFER IN EAST OWEINAT AREA, SW EGYPT Esam EL SAYED, K. DAHAB, A. M. EBRAHEEM		
1504	HS02/07P/C24-0330P	Oral-Poster
A STUDY OF HYDROGEOLOGICAL CONDITIONS OF THE NUBIAN SANDSTONE AQUIFER IN THE AREA BETWEEN ABU SIMBEL AND TUSCHKA, WESTERN DESERT, EGYPT Esam EL SAYED, K. DAHAB, A. M. EBRAHEEM		
1508	HS02/07P/C24-0340P	Oral-Poster
GEOPHYSICAL EXPLORATION FOR GROUNDWATER IN THE TOLON- KUMBUNGU DISTRICT OF GHANA. Jude Simon BAYOR, Aboagye MENYE		
1512	HS02-/07P/C24-0350P	Oral-Poster
A POLLUTION OF AQUIFERS BY HYDROCARBONACEOUS INCLUSIONS Nadezhda K. KORSKOVA, Valentin I. PENKOVSKY		
1516	HS02/07P/C24-0360P	Oral-Poster
INTEGRATED GEOPHYSICAL INTERPRETATION FOR GROUNDWATER EXPLORATION AT NUKHL AREA , CENTRAL SINAI, EGYPT Abdel-Rady Ghareeb HASSANEEN, Sultan Awad SULTAN, Badr Saad MOHAMED		
1520	HS02/07P/C24-0370P	Oral-Poster
STUDY ON REMOVAL OF CADMIUM FROM GROUNDWATER BY ADSORPTION ON GAC , BAC & BIOFILTER Ramazan ali DIANATI TILAKI		
1524	HS0207P/C24-0380P	Oral-Poster
GROUND WATER ROLE IN THE ARAL SEA REGION PUBLIC WATER SUPPLY Abdulkhakim SALOKHIDDINOV, Khidoyat VALIEV		
1528	DISCUSSION	

HS02a-Posters Monday, July 7 PM

WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)
Location: Site D

1545-147	HS02a/07P/D-001	Poster
IMPACTS OF ENVIRONMENTAL CHANGE AND POPULATION GROWTH ON THE WATER QUALITY AND WATER AVAILABILITY IN INDIA Shadananan K. NAIR		
1545-148	HS02a/07P/D-002	Poster
ESTIMATION OF POTENTIAL WATER RESOURCES IN THE LOWER MEKONG RIVER BASIN NMNS Bandara NAWARATHNA, So KAZAMA, Masaki SAWAMOTO		
1545-149	HS02a/07P/D-003	Poster
CLIMATE CHANGE AND WATER RESOURCES VULNERABILITY IN HEAD AREA OF CHANGJIANG AND HUANGHE Shao-feng JIA, Hua-yun YAN, Run-jie LI		
1545-150	HS02a/07P/D-004	Poster
AN ESTIMATION OF AVAILABLE WATER RESOURCES Boris BERA KOVIC, Marija BERA KOVIC, Ksenija CESAREC		
1545-151	HS02a/07P/D-005	Poster
CHANGEMENTS CLIMATIQUES, RESSOURCES EN EAU ET SECHERESSES AU MAROC Mohammed-Said KARROUK		
1545-152	HS02a/07P/D-006	Poster
WORLD MAP OF HYDROGEOLOGICAL CONDITIONS AND GROUNDWATER FLOW Roald Gamidovich DZHAMALOV, Igor Semenovich ZEKTSER		
1545-153	HS02a/07P/D-007	Poster
ASSESSING THE SUSTAINABILITY OF URBAN WATER RESOURCES Matthias EISWIRTH		

1545-154	HS02a/07P/D-008	Poster
ASSESSING VULNERABILITY OF WATER RESOURCES TO CLIMATE CHANGE IN MIDWEST Hua XIE, Wayland J. EHEART		
1545-155	HS02a/07P/D-009	Poster
THE BASIC FEATURES OF TRANSFORMATION OF A REGIONAL CLIMATIC FIELD OF PRECIPITATION ON UKRAINE UNDER INFLUENCE OF GLOBAL WARMING Volodymyr M. VOLOSHCHUK, Svetlana G. BOYCHENKO		
1545-156	HS02a/07P/D-010	Poster
FEATURES OF WATER RESOURCES SYSTEMS IN GEORGIA Konstantine Kote BZIAVA, David Dato GUBELADZE		
1545-157	HS02a/07P/D-011	Poster
STREAMFLOW VARIATION OF FOREST COVERED CATCHMENTS Zoltán GRIBOVSKÍ, Mihály KUCSARA, Péter KALICZ		
1545-158	HS02a/07P/D-012	Poster
FINGERPRINTING CLIMATE CHANGE DRIVEN DROUGHTS IN WESTERN CANADA Lawrence Chima NKEMDIRIM		
1545-159	HS02a/07P/D-013	Poster
THE CONCEPT OF MODERN ARID ZONES OF HYDROGEOLOGY OF CENTRAL ASIA AND ITS PROBLEM. Nasirdjan -TAKHIROV, Shukhrat Saifullaevich RADJABOV		
1545-160	HS02a/07P/D-014	Poster
THE GLOBAL WATER SYSTEM PROJECT OF IGBP*, IHDP*, WCRP*, DIVERSITAS Holger H. HOFF, Holger HOFF, Carlo JAEGER, Denis LETTENMAIER, Christian LEVEQUE, Harry LINS, Michel MEYBECK, Madiodio NIASSE, Charles VOROSMARTY		
1545-161	HS02a/07P/D-015	Poster
MODELLING OF WATER AVAILABILITY IN GRASSLAND ECOSYSTEMS OF ARID ZONE DELTA PLAINS Natalia V. PENKOVA, V.P. SINGH , V.A. KHAYDAROVA , N.M. NOVIKOVA		
1545-162	HS02a/07P/D-016	Poster
CLIMATIC VARIABILITY AND LAND RESOURECS VULNERABILITY IN THE FORCADOS RIVER ESTUARY Mayowa FASONA		
1545-163	HS02a/07P/D-017	Poster
INFLUENCE OF CLIMATE WARMING ON ASIAN LAKES FROM VIEW POINTS OF WATER RESOURCES Hiroji FUSHIMI		
1545-164	HS02a/07P/D-018	Poster
APPLICATION OF WATER BALANCE MODEL FOR REVEALING OF HIDDEN CYCLES IN THE CHANGES OF CHARACTERISTICS OF ENCLOSED LAKES (CASPIAN SEA AS A CASE STUDY) Alexey Vladimirovich BABKIN		
1545-165	HS02a/07P/D-019	Poster
INDUSTRIAL WASTE WATER IMPACT ON WATER QUALITY OF ZARAVSHAN RIVER, UZBEKISTAN Marina Stanislavovna MOLODOVSKAYA, Raisa V. TORYANNIKOVA, Nariman M. UMAROV		
1545-166	HS02a/07P/D-020	Poster
STATUS, TENDENCY AND PROBLEMS OF TRANSBOUNDARY WATER QUALITY MANAGEMENT IN ARAL SEA BASIN Raisa V. TARYANNIKOVA, Marina S. MOLODOVSKAYA		
1545-167	HS02a/07P/D-021	Poster
STUDY ON THE MODELING METHOD OF LAND WATER QUANTITY AND QUALITY AND ECOLOGY COUPLING SYSTEM Ge TAN, Qiting ZUO, Jun XIA		
1545-168	HS02a/07P/D-022	Poster
SOIL DEGRADATION OF JAVA ISLAND Seno ADI		
1545-169	HS02a/07P/D-023	Poster
ASSESSMENT OF THE IMPACT OF INDUSTRIAL EFFLUENTS ON WATER QUALITY IN KORBA AND ENVIRONS, CHHATISGARH, INDIA L.P. CHOURASIA		
1545-170	HS02a/07P/D-024	Poster
WATER QUALITY IN NORTHERN KARNATAKA, INDIA - A CASE STUDY Ramaraju Hanumanahalli KAMBADARANGAPPA, Rajkamal, Prasanna Kumar N. S., Ranganna G.		
1545-171	HS02a/07P/D-025	Poster
INTEGRATING HIGH RESOLUTION SATELLITE IMAGERY AND WATER QUALITY STATISTICS FOR WATER RESOURCE MANAGEMENT Nandani Dhammika Kumari DAYAWANSA		

1545-172 HS02a/07P/D-026 Poster
SEASONAL VARIATION IN WATER QUALITY IN ORLE RIVER BASIN, S.W. NIGERIA 2 CHEMICAL HYDROLOGY
Catherine Imhangulaya IKHILE, Stella Maris AKHIONBARE

1545-173 HS02a/07P/D-027 Poster
CONCENTRATIONS OF URANIUM IN SURFACE WATER IN QINGHAI-TIBET PLATEAU
Yuefang LI, Tandong YAO, Lide TIAN, Wusheng YU, Jianchen PU

1545-174 HS02a/07P/D-028 Poster
ISOTOPIC EVALUATION OF GROUNDWATER SYSTEMS FOR RISK ASSESSMENT AND MANAGEMENT DURING EXTREME EVENTS
Partha Sarathi DATTA, Sunil Kumar TYAGI

1545-175 HS02a/07P/D-029 Poster
GROUNDWATER ISSUES IN PONDICHERRY COASTAL ZONE , INDIA
S.S.Sundarvel RAGASAKTHI

1545-176 HS02a/07P/D-030 Poster
THE STUDY FOR GROUNDWATER RESOURCES SYSTEM OF CHINA WITH THREE-RATED APPRAISING METHOD OF SUBAREA
HuaJun Hua LOU, Hong Hong WANGHONG, Jun Jun XIAJUN, XianFang Xian SONG

1545-177 HS02a/07P/D-031 Poster
ACID RAIN AND GROUNDWATER QUALITY
Roald Gamidovich DZHAMALOV

1545-178 HS02a/07P/D-032 Poster
HYDROGEOLOGICAL ANDHYDROGEOCHEMICAL ASPECTS OF THE NUBIAN SANDSTONE AQUIFER IN EAST OWEINAT AREA, SW EGYPT
Esam EL SAYED, K. DAHAB, A.M. EBRAHEEM

1545-179 HS02a/07P/D-033 Poster
A STUDY OF HYDROGEOLOGICAL CONDITIONS OF THE NUBIAN SANDSTONE AQUIFER IN THE AREA BETWEEN ABU SIMBEL AND TUSCHKA, WESTERN DESERT, EGYPT
Esam EL SAYED, K. DAHAB, A.M. EBRAHEEM

1545-180 HS02a/07P/D-034 Poster
GEOPHYSICAL EXPLORATION FOR GROUNDWATER IN THE TOLON-KUMBUNGU DISTRICT OF GHANA
Jude Simon BAYOR, Aboagye MENYE

1545-181 HS02a/07P/D-035 Poster
A POLLUTION OF AQUIFERS BY HYDROCARBONACEOUS INCLUSIONS
Nadezhda K. KORSAKOVA, Valentin I. PENKOVSKY

1545-182 HS02a/07P/D-036 Poster
INTEGRATED GEOPHYSICAL INTERPRETATION FOR GROUNDWATER EXPLORATION AT NUKHL AREA , CENTRAL SINAI, EGYPT
Abdel-Rady Ghareeb HASSANEEN, Sultan Awad SULTAN, Badr Saad MOHAMED

1545-183 HS02a/07P/D-037 Poster
STUDY ON REMOVAL OF CADMIUM FROM GROUNDWATER BY ADSORPTION ON GAC , BAC & BIOFILTER
Ramazan ali DIANATI TILAKI

1545-184 HS02a/07P/D-038 Poster
GROUND WATER ROLE IN THE ARAL SEA REGION PUBLIC WATER SUPPLY
Abdulkhakim SALOKHIDDINOV, Khidoyat VALIEV

HS03 Monday, July 7 PM

WEATHER RADAR INFORMATION AND DISTRIBUTED HYDROLOGICAL MODELING (ICSW)
Location: Site C, Room 26

Presiding Chair: E. Nakakita

WEATHER RADAR INFORMATION FOR HYDROLOGICAL PREDICTION

1400 HS03/07P/C26-001
EFFECT OF RADAR BEAM GEOMETRY ON RADAR RAINFALL ESTIMATION
Siriluk CHUMCHEAN, Alan SEED, Ashish SHARMA

1415 HS03/07P/C26-002
EVALUATION OF DUAL POLARIZATION RADAR FOR RAINFALL-RUNOFF MODELING - A CASE STUDY IN SYDNEY, AUSTRALIA
Phillip W. JORDAN, Alan W. SEED, Tom D. KEENAN, Peter T. MAY

1430 HS03/07P/C26-003
RADAR RAINGAUGE WITH VOLUME SCANNING FUNCTION
Takeo KINOSITA, Minoru IRISAWA

1445 HS03/07P/C26-004
EVALUATION OF THE APPLICABILITY OF RADAR RAINFALL INFORMATION TO OPERATIONAL HYDROLOGY
Tadashi MATSUURA, Kazuhiko FUKAMI, Junichi YOSHITANI

1500 HS03/07P/C26-005
WEATHER RADAR DISTRIBUTED HYDROLOGICIC MODEING, CASE STUDY IN INDUS BASIN
Shaukat Ali AWAN

1515 HS03/07P/C26-006
RADAR PRECIPITATION FOR WINTER HYDROLOGICAL MODELLING
Steven R. FASSNACHT, Eric D. SOULIS, Nicholas KOUWEN

1530 BREAK

1545 HS03/07P/C26-007
NUMERICAL STUDY OF RAINFALL-TOPOGRAPHY RELATIONSHIPS IN MOUNTAINOUS REGIONS OF JAPAN USING A MESOSCALE METEOROLOGICAL MODEL
Yoshiharu SUZUKI, Eiichi NAKAKITA, Shuichi IKEBUCHI

1600 HS03/07P/C26-008
SIMULATION OF PRECIPITATION CAUSED BY A BAIU FRONT: AN EVALUATION STUDY WITH RADAR DATA
Soichiro SUGIMOTO, Hiromaru HIRAKUCHI

1615 HS03/07P/C26-009
RAINSTORM CHARACTERISTICS IN TEMPERATE AREAS DERIVED FROM MULTIPLE TIME SERIES OF WEATHER RADAR IMAGES
Gabrielle J.M. DE LANNOY, Inge L.M. DE JONGH, Niko E.C. VERHOEST, François P. DE TROCH

1630 HS03/07P/C26-010
STOCHASTIC MODELING OF ERROR STRUCTURE OF REAL-TIME PREDICTED RAINFALL AND RAINFALL FIELD GENERATION
Yasuto TACHIKAWA, Yoshimitsu KOMATSU, Kaoru TAKARA, Michiharu SHIIBA

1645 HS03/07P/C26-011
ON THE MODELING OF TEMPORAL CORRELATIONS IN SPATIAL-CASCADE RAINFALL DOWNSCALING
Assela PATHIRANA, Srikantha HERATH, Tadashi YAMADA

HS04 Monday, July 7 PM

METHODOLOGIES FOR RISK ASSESSMENT OF WASTE WATER RE-USE ON GROUNDWATER QUALITY (ICWQ)
Location: Site C, Room 30

Presiding Chairs: L. Candela, R. Singh

CASE STUDIES

1405 HS04/07P/C30-001
ASSESSMENT OF RE-USE OF WASTEWATER FOR IRRIGATION: A CASE IN PUNJAB, PAKISTAN
Yutaka MATSUNO, Jeroen ENSINK, Robert SIMMONS, Wim VAN DER HOEK, Sarfraz MUNIR , Rizwan ASLAM

1435 HS04/07P/C30-002
ON THE IDENTIFICATION OF NITRATE POLLUTION IN GROUNDWATER IN A WASTEWATER IRRIGATED FIELD
Jianyao CHEN, Changyuan TANG, Yasuo SAKURA, Yanjun SHEN

1505 HS04/07P/C30-003
LONG TERM EFFECT OF IRRIGATION WITH WASTEWATER ON NITRATE IN GROUNDWATER OF NORTH CHINA PLAIN
Changyuan TANG, Jianyao CHEN, Yuanjun SHEN

1555 HS04/07P/C30-004
DETERMINATION OF WATER QUALITY IMPROVEMENTS DUE TO THE ARTIFICIAL RECHARGE OF TREATED EFFLUENT
Simon TOZE, Jon HANNA, Tony SMITH, Lindsay EDMONDS, Adrian MCCROW,

1625 HS04/07P/C30-005
IMPACT OF UNINTENDED RECHARGE OF ASSAMRA WASTEWATER STABILIZATION PONDS ON THE SHALLOW AQUIFER IN WADI DHULEIL BASIN
Nizar KLhalil AL-HALASAH

1655 HS04/07P/C30-006
TREATED URBAN WASTEWATER REUSE FOR IRRIGATION OF A GOLF COURSE AND IMPACT ON SOIL AND GROUNDWATER
Lucila CANDELA, Jordi MAS

HW06 Monday, July 7 PM

ISOTOPE TRACERS IN WATER CYCLE MODELS (IAHS/ICT, IAEA)
Location: Site C, Room 31

Presiding Chairs: J.J. Gibson, J. McDonnell

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PM

- 1400 HW06/07P/C31-001**
A FORMATION PROCESS OF STABLE ISOTOPIC COMPOSITIONS OF OXYGEN AND HYDROGEN IN SOIL WATER AND ESTIMATION OF AVERAGE RECHARGE IN THE UNSATURATED ZONE OF THE KANTO LOAM, JAPAN
Shiho YABUSAKI, Norio TASE, Maki TSUJIMURA, Atsuko SUGIMOTO
- 1420 HW06/07P/C31-002**
SUSTAINABLE GROUNDWATER ABSTRACTION BASED ON THE CALIBRATION OF NUMERICAL MODELS USING RESULTS OF AN ENVIRONMENTAL ISOTOPE MONITORING
Klaus-Peter SEILER
- 1440 HW06/07P/C31-003**
CHARACTERISATION OF AQUIFERS IN KARSTIC TERRAIN USING STABLE ENVIRONMENTAL ISOTOPES
Ninad BODHANKAR, K.M. KULKARNI
- 1500 HW06/07P/C31-004**
USING THE TRITIUM/HELIUM AGE DATING METHOD TO CHARACTERISE TWO RIVER RECHARGED AQUIFER SYSTEMS IN GERMANY
Massmann GUDRUN, Juergen SUELTFUSS, Andrea KNAPPE, Asaf PEKDEGER
- 1520 HW06/07P/C31-005**
REGIONAL MODELLING OF ISOTOPE EXCHANGE DURING EVAPORATION
John J. GIBSON, S. Jean BIRKS
- 1540 HW06/07P/C31-006**
ISOTOPIC SIGNATURES OF SOURCE WATER AND RAIN FORMATION MECHANISM IN INDIAN MONSOON PRECIPITATION
Sourendra Kumar BHATTACHARYA, Pradeep Kumar AGGARWAL, Kshitij M. KULKARNI
- 1600 HW06/07P/C31-007**
OBSERVATION ON RECYCLING OF WATER IN EAST SIBERIAN TAIGA
Atsuko SUGIMOTO, Daisuke NAITO, Kimpei ICHIYANAGI, Naoyuki KURITA, Yoshiyuki ISHII, Tetsuo OHATA

HW06-Posters Monday, July 7 PM

ISOTOPE TRACERS IN WATER CYCLE MODELS (IAHS/ICT, IAEA)

Location: Site D

Presiding Chairs: J.J. Gibson, J. McDonnell

- 1400-185 HW06/07P/D-001 Poster**
APPORTS DES TECHNIQUES ISOTOPIQUES A LA CONNAISSANCE DE LA DYNAMIQUE DES EAUX SOUTERRAINES DANS UN BASSIN TRANSFRONTALIER (BASSIN DE TAUDENNI)
Denis DAKOURE, Ghislain (de) MARSILY, Mustapha BESBES, Henri SALVAYRE, Martial DRAY
- 1400-186 HW06/07P/D-002 Poster**
ISOTOPE METHODS AND THEIR ROLE IN ANALYZING THE ALLOCATION OF WATER RESOURCES
Inom Sherovich NORMATOV
- 1400-187 HW06/07P/D-003 Poster**
SEASONAL CHANGES IN STABLE ISOTOPE CONTENTS OF STREAM WATER IN A SMALL TUNDRA WATERSHED, EASTERN SIBERIA
Yoshiyuki ISHII, Atsuko SUGIMOTO
- 1400-188 HW06/07P/D-004 Poster**
STABLE ISOTOPE SIGNATURE OF SUMMER AND WINTER MONSOON RAINS IN SHALLOW GROUNDWATERS FROM INDIA
Sourendra Kumar BHATTACHARYA, R.D. DESHPANDE, R.A. JANI, S.K. GUPTA
- 1400-189 HW06/07P/D-005 Poster**
DIVERSITY OF SR ISOTOPIC COMPOSITIONS OF HOT SPRING AND VOLCANIC WATERS FROM ZAO VOLCANIC AREA, JAPAN
Hiromasa ISHIKAWA, Hirokazu FUJIMAKI
- 1400-190 HW06/07P/D-006 Poster**
TEMPORAL VARIATION OF STABLE ISOTOPES IN PRECIPITATION AT THAILAND OBSERVED IN 2001
Kimpei ICHIYANAGI, Manabu D. YAMANAKA
- 1400-191 HW06/07P/D-007 Poster**
THE CONTRIBUTION OF WATER RECYCLING TO THE ISOTOPIC COMPOSITION OF RAINFALL OVER CENTRAL EURASIA
Naoyuki KURITA, Kooiti MASUDA, Koji YAMAZAKI, Naohiro YOSHIDA
- 1400-192 HW06/07P/D-008 Poster**
SULFUR ISOTOPE CONSTRAINT ON THE PROVENANCE OF SALINITY IN CONFINED AQUIFER SYSTEM. A CASE STUDY IN ESTUARINE AREA OF KISO RIVER, CENTRAL JAPAN
Masaru YAMANAKA, Yoshihiro KUMAGAI, Hiroki TAKAMURA
- 1400-193 HW06/07P/D-009 Poster**
CHARACTERIZING THE HYDROLOGY OF HEADWATER SYSTEMS USING RESIDENCE TIME DISTRIBUTIONS
Kevin James MCGUIRE, Jeff MCDONNELL, Carol KENDALL

- 1400-194 HW06/07P/D-010 Poster**
IMPLEMENTATION AND TESTING OF WATER ISOTOPES INTO THE WEATHER RESEARCH AND FORECAST (WRF) MODEL
Norman L. MILLER, Prudence N. FOSTER, Donald J. DEPAOLO

HW08 Monday, July 7 PM

PARAMETER ESTIMATION TECHNIQUES (IAHS/WMO WORKING GROUP ON GEWEX WITH THE SUPPORT OF ICSW AND ICASVR)

Location: Site C, Room 28

Presiding Chairs: A. Hall, S. Franks

REVIEW OF MODEL PARAMETER ESTIMATION EXPERIMENT WORKSHOP RESULTS

1400 INTRODUCTION

- 1410 HW08/07P/C28-001**
GEOELECTRICAL PARAMETERS ESTIMATION IN HYDROGEOLOGICAL INVESTIGATION USING FUZZY LOGIC TECHNIQUE
Moruffdeen Adedapo ADABANIJA
- 1430 HW08/07P/C28-002 Invited**
OVERVIEW OF MODEL PARAMETER ESTIMATION EXPERIMENT (MOPEX)
Qingyun DUAN, John SCHAAKE
- 1500 HW08/07P/C28-003 Invited**
REVIEW OF RESULTS FROM THE SECOND MOPEX WORKSHOP IN TUCSON, AZ, APRIL 8-10, 2002
Qingyun DUAN, John SCHAAKE

1530 BREAK

- 1550 HW08/07P/C28-004**
DEVELOPMENT AND TESTING OF A PRIORI PARAMETER ESTIMATION METHODS FOR DISTRIBUTED-PARAMETER MODELS: A COMPARISON AMONG 20 HYDROLOGIC LANDSCAPES DEFINED FOR THE UNITED STATES
George H. LEAVESLEY, Lauren E. HAY, Roland J. VIGER, Steven L. MARKSTROM, Thomas C. WINTER
- 1610 HW08/07P/C28-005**
AN ATTEMPT TO RELATE THE MOPEX BASIN FEATURES WITH THE BTOPMC MODEL PARAMETERS
Kuniyoshi TAKEUCHI, Tianqi AO, Hiroshi ISHIDAIRA, Junichi YOSHITANI, Kazuhiko FUKAMI, Hiroshi OKUMURA, Taichi TEBAKARI
- 1630 HW08/07P/C28-006**
A ROBUST TECHNIQUE FOR MODEL STRUCTURE IDENTIFICATION AND CALIBRATION
Emiel E. VAN LOON, Paul TORFS, Peter A. TROCH



MI08 Monday, July 7 PM

LABORATORY STUDIES ON ATMOSPHERIC ISSUES (ICCP, ICACGP, IRC)

Location: Site B, Room 18

Convener: J. Hallett

Presiding Chairs: C. Knight, Y. Furukawa

- 1500 MI08/07P/B18-001 Invited**
KINETIC LIMITATIONS TO CLOUD DROPLET GROWTH AND EVAPORATION: EXPERIMENTAL STUDIES WITH AN ENVIRONMENTALLY CONTROLLED LEVITATION CELL
Dennis LAMB
- 1530 MI08/07P/B18-002 Invited**
LABORATORY STUDIES OF THE INFLUENCE OF CLOUD MICROPHYSICS ON THUNDERSTORM ELECTRIFICATION PROCESSES.
Clive P. R. SAUNDERS, Holly A. BAX-NORMAN
- 1600 MI08/07P/B18-003**
ATMOSPHERIC ICE CRYSTALS BETWEEN -20 C AND -70 C: A NEW HABIT DIAGRAM
Matthew P. BAILEY, John HALLETT
- 1620 MI08/07P/B18-004**
NEW IPSL EXPERIMENTS ON GLAZE ICE ACCRETION ON A STATION POST INSULATOR
Wladyslaw J. RUDZINSKI, Edward P. LOZOWSKI, Masoud FARZANEH

1640 MI08/07P/B18-005
STUDIES ON REACTION AND PHOTODISSOCIATION PROCESSES IN THE ATMOSPHERE USING A VACUUM ULTRAVIOLET LASER INDUCED FLUORESCENCE TECHNIQUE
Yutaka MATSUMI, Kenshi TAKAHASHI

1700 MI08/07P/B18-006
THE LABORATORY INVESTIGATION OF CORONA DISCHARGE FROM ICE CRYSTALS
Matthew P. BAILEY, John HALLETT, Danyal PETERSEN, William BEASLEY

1715 MI08/07P/B18-007
CAPACITANCES OF LABORATORY GROWN ICE CRYSTALS: A TEST OF THE ELECTROSTATIC MODEL OF CRYSTAL GROWTH
Matthew P. BAILEY, John HALLETT, Alexei KOROLEV, George ISAAC

MI08-Posters Monday, July 7 PM

LABORATORY STUDIES ON ATMOSPHERIC ISSUES (ICCP, ICACGP, IRC)
Location: Site D

1400-195 MI08/07P/D-001 Poster
PRECISE DETERMINATION OF THE QUANTUM YIELD FOR O(1D) PRODUCTION IN THE UVPHOTOLYSIS OF O3
Kenshi TAKAHASHI, Takayuki SUZUKI, Tomoki NAKAYAMA, Yutaka MATSUMI

1400-196 MI08/07P/D-002 Poster
THE STUDY OF SEEDING EFFICIENCY OF SOME NATURAL MATERIALS IN COLD CLOUDS
Seyed Alireza SADEGHI HOSSEINI, Atoosa FERDOSIN NAJAFABADI

1400-197 MI08/07P/D-003 Poster
AEROSOL FLOW TUBE STUDIES ON THE HETEROGENEOUS REACTION OF HNO3 AND N2O5 ON MINERAL AEROSOL
Friedrich HANISCH, Heleen DE CONINCK, John N. CROWLEY

MC02 Monday, July 7 PM

TYPHOONS IN ASIA: THEIR UNIQUE FEATURES (ICDM)
Location: Site B, Room 20

Presiding Chairs: I. Ginis, J. Tsutsui

TYPHOON STRUCTURE

1400 MC02/07P/B20-001
USE OF QUIKSCAT DATA IN STUDYING THE EVOLUTION OF TROPICAL CYCLONE STRUCTURE
Johnny C.L. CHAN, Cleo YIP

1420 MC02/07P/B20-002
ON THE FORMATION OF CONCENTRIC VORTICITY STRUCTURE IN TYPHOONS
Hung-Chi KUO, Lee-Yaw LIN, Chih-Pei CHANG, R. Terry WILLIAMS

1440 MC02/07P/B20-003
DETECTABILITY OF TYPHOON EYES OVER OCEANS IN TRMM PR AND IR OBSERVATIONS
Yasu-Masa KODAMA, Takuya YAMADA

1500 MC02/07P/B20-004
TEMPORAL AND SPATIAL VARIATIONS OF PRECIPITATION OF LANDFALLING TYPHOONS IN TAIWAN
JONG-DAO Ben JOU

1520 BREAK

1540 MC02/07P/B20-005
DIURNAL VARIATION PATTERNS OF THE LOW TBB AREA OF TYPHOONS
Fumi UENOBE, Masaki ISHIWATARI, Atusi NUMAGUTI

1600 MC02/07P/B20-006
TROPICAL CYCLONES WITH AN ELLIPTICAL EYE OBSERVED AROUND THE SOUTHWESTERN ISLANDS IN JAPAN
Toshihisa ITANO, Gen'ichi NAITO

1620 MC02/07P/B20-007
COMPARISON OF THE SPATIAL DISTRIBUTION OF RAINFALL IN TROPICAL CYCLONES OF THE WEST PACIFIC AND OF OTHER OCEANIC BASINS
Manuel LONFAT, John A. KNAFF, Frank D. MARKS, Shuyi S. CHEN

1640 MC02/07P/B20-008
EFFECTS OF ROLL VORTICES ON THE STRUCTURE OF THE MARINE BOUNDARY LAYER IN TROPICAL CYCLONES
Isaac GINIS, Isaac GINIS

1700 MC02/07P/B20-009
THE GENERATION MECHANISM OF THE MESOSCALE PRESSURE DIP WITHIN THE TROPICAL CYCLONE
Hironori FUDEYASU, Taiich HAYASHI

MC02-Posters Monday, July 7 PM

TYPHOONS IN ASIA: THEIR UNIQUE FEATURES (ICDM)
Location: Site D

1400-198 MC02/07P/D-001 Poster
THE EFFECT OF ENTRAINMENT IN A CUMULUS PARAMETERIZATION ON THE SIZE OF A SIMULATED TROPICAL CYCLONE
Akihiko MURATA, Mitsuru UENO

1400-199 MC02/07P/D-002 Poster
TRMM SCIENTIFIC DATA AT THE GES DAAC AND THEIR APPLICATIONS TO MONITORING TROPICAL CYCLONES
Hualan RUI, Bill TENG, Long CHIU, Zhong LIU

1400-200 MC02/07P/D-003 Poster
TYPHOON SPIRAL BAND STRUCTURES OBSERVED WITH A WIND PROFILER NETWORK
Michihiro TESHIBA, Manabu D. YAMANAKA, Hiroyuki HASHIGUCHI, Yoshiaki SHIBAGAKI, Yuichi OHNO, Shoichiro FUKAO

1400-201 MC02/07P/D-004 Poster
RADAR OBSERVATIONS OF TYPHOON 9807(VICKI)
Noriyuki KAWANO, Yoshiaki SHIBAGAKI, Shoichiro FUKAO

1400-202 MC02/07P/D-005 Poster
WINDSTORM CATASTROPHES IN EUROPE AND JAPAN - CURRENT LOSS ANALYSES IN THE PERIOD 1990 - 2002
Peter MIESEN

1400-203 MC02/07P/D-006 Poster
EXTRATROPICAL TRANSITION OF TROPICAL CYCLONES IN THE WESTERN NORTH PACIFIC: THEIR FRONTAL EVOLUTION
Naoko KITABATAKE

1400-204 MC02/07P/D-007 Poster
APPLICATION OF STEERING WEIGHT CONCEPT TO TYPHOON SAOMAI IN 2000
Mitsuru UENO, Akihiko MURATA

1400-205 MC02/07P/D-008 Poster
TROPICAL CYCLONE ASSIMILATION AND PREDICTION. PART II: COMPARISON BETWEEN THE NORTHWEST PACIFIC AND OTHER TROPICAL CYCLONE BASINS
Lance M. LESLIE, Seon Ki PARK

1400-206 MC02/07P/D-009 Poster
DEVELOPMENT OF A TWO-WAY MULTIPLY-NESTED MOVABLE MESH TYPHOON MODEL
Wataru MASHIKO, Chiashi MUROI

1400-207 MC02/07P/D-010 Poster
DEVELOPMENT OF TYPHOON-OCEAN COUPLED MODEL AT METEOROLOGICAL RESEARCH INSTITUTE IN JAPAN METEOROLOGICAL AGENCY
Akiyoshi WADA

MC05 Monday, July 7 PM

MIDDLE ATMOSPHERE SCIENCE (ICMA)
Location: Site A, Room 9

Presiding Chair: S. Pawson

1400 MC05/07P/A09-001 Invited
TESTING MIDDLE-ATMOSPHERIC OZONE PHOTOCHEMISTRY WITH TIMED SATELLITE OBSERVATIONS
Daniel R. MARSH, Anne K. SMITH

1430 MC05/07P/A09-002
OZONE PERTURBATIONS IN THE ARCTIC SUMMER LOWER STRATOSPHERE AS A REFLECTION OF NOX CHEMISTRY AND PLANETARY-SCALE WAVE ACTIVITY
Hideharu AKIYOSHI, Takafumi SUGITA, Hiroshi KANZAWA, Nozomi KAWAMOTO

1450 MC05/07P/A09-003
ANALYSIS OF YEAR-TO-YEAR OZONE VARIATION OVER THE SUBTROPICAL WESTERN PACIFIC REGION USING EP_TOMS DATA AND CCSR/NIES NUDGING CTM
Libo ZHOU, Hideharu AKIYOSHI, Kohji KAWAHIRA

1510 MC05/07P/A09-004 Invited
DYNAMICAL INFLUENCES ON OZONE CHANGES
Theodore G. SHEPHERD

WEEK
B
MON
PM

1540	BREAK	
1610	MC05/07P/A09-005	Invited
CHEMICAL SPECIES MAPPING ON TRAJECTORIES (CSMT): A NEW SCHEME OF CHEMICAL OZONE LOSS ANALYSIS USING A BOX MODEL ALONG TRAJECTORIES Sachiko HAYASHIDA, Akiko KAGAWA, Sachiko KAWASE, Nao IKEDA		
1640	MC05/07P/A09-006	
ON THE INFLUENCE OF THE LARGE-SCALE EDDY FLUX VARIABILITY ON INTERANNUAL AND DECADEAL OZONE CHANGES Axel GABRIEL, Gerhard SCHMITZ		
1700	MC05/07P/A09-007	
CHEMICAL OZONE LOSS AND TRACER EVOLUTION IN THE ELEVEN ARCTIC WINTERS BETWEEN 1991/92 AND 2001/02 DERIVED FROM HALOE OBSERVATIONS Tilmes SIMONE, Rolf MUELLER, Jens-Uwe GROOSS, Ulrich SCHMIDT, James M. RUSSELL III, Yasuhiro SASANO		
1720	MC05/07P/A09-008	
CHEMICAL OZONE LOSS MECHANISM IN WINTER/SPRING OF 1997 OVER THE ARCTIC DERIVED BY CSMT ANALYSIS: ON RELEVANCE TO DENITRIFICATION Sachiko HAYASHIDA, Akiko KAGAWA, Sachiko KAWASE, Nao IKEDA		
1740	MC05/07P/A09-009	
DYNAMICAL INVESTIGATION OF OZONE MINI-HOLES DURING WINTER OF NORTHERN HEMISPHERE Koki IWAO, Toshihiko HIROOKA		

MC05-Posters Monday, July 7 PM

MIDDLE ATMOSPHERE SCIENCE (ICMA)		
Location: Site D		
1400-208	MC05/07P/D-001	Poster
CLIMATOLOGICAL FEATURES OF STRATOSPHERIC STREAMERS SIMULATED WITH THE BERLIN CLIMATE MIDDLE ATMOSPHERE MODEL (FUB CMAM) Kirstin KRUEGER, Kirstin KRUEGER, Ulrike LANGEMATZ, John Lee GRENFELL		
1400-209	MC05/07P/D-002	Poster
A CONNECTION THE STRATOSPHERIC QUASI-BIENNIAL OSCILLATION WITH APPEARANCE AND VANISHMENT OF EL NIÑO / LA NIÑA EVENTS Makoto INOUE		
1400-210	MC05/07P/D-003	Poster
IMPROVED SAGE II WATER VAPOR INVERSION Larry W. THOMASON, Nina IYER, S.P. BURTON		
1400-211	MC05/07P/D-004	Poster
ESTIMATION OF TURBULENT OZONE FLUXES FROM THE MIDDLE ATMOSPHERE THROUGH THE TROPOPAUSE OVER SHIGARAKI, JAPAN Nikolai M. GAVRILOV, Shoichiro FUKAO		
1400-212	MC05/07P/D-005	Poster
STRATOSPHERIC SUDDEN WARMINGS IN THE SOUTHERN HEMISPHERE : A COMPARISON BETWEEN EVENTS IN 2002 AND 1988 Akiko MORI, Akiko SAKAI, Toshihiko HIROOKA		
1400-213	MC05/07P/D-006	Poster
THE OZONE MINIMUM OVER THE SUBTROPICAL NORTHWESTERN PACIFIC IN WINTER Han JIANYU, Koji YAMAZAKI, Masanori NIWANO		
1400-214	MC05/07P/D-007	Poster
CHARACTERISTICS OF INERTIO-GRAVITY WAVES OVER THE SOUTH PACIFIC OCEAN Miho YAMAMORI, Kaoru SATO		
1400-215	MC05/07P/D-008	Poster
SEMI-ANNUAL OZONE VARIATION IN THE MESOSPHERE OBSERVED OVER TSUKUBA, JAPAN Tomoo NAGAHAMA, Hideaki NAKANE, Yasumi FUJINUMA, Hideo OGAWA, Akira MIZUNO, Yasuo FUKUI		
1400-216	MC05/07P/D-009	Poster
SIMULATION OF INERTIAL INSTABILITY IN A PRIMITIVE EQUATIONS MODEL Diane PENDLEBURY, Timothy J. DUNKERTON		
1400-217	MC05/07P/D-010	Poster
SENSITIVITY OF STRATOSPHERIC OZONE TO MEAN CIRCULATION IN AN OZONE REANALYSIS SYSTEM BASED ON A CTM Kazuyuki MIYAZAKI, Toshiaki IWASAKI, Kiyotaka SHIBATA, Osamu CHIBA, Tsuyoshi SEKIYAMA, Kotato ORITO		
1400-218	MC05/07P/D-011	Poster
FORCING MECHANISMS OF THE STRATOPAUSE SEMI-ANNUAL OSCILLATION Hiroshi KUBO		

1400-219	MC05/07P/D-012	Poster
OZONE DEPLETION OBSERVED AT TSUKUBA, JAPAN IN FEBRUARY 2001 Isao MURATA, Nobutaka KOBAYASHI, Hideaki NAKANE, Hiroshi FUKUNISHI		
1400-220	MC05/07P/D-013	Poster
CORRELATION BETWEEN OZONE AND POTENTIAL TEMPERATURE AND ITS DEPENDENCE ON SEASON AND LATITUDE Katsuyuki NOGUCHI, Takeshi IMAMURA, Koh-ichiro OYAMA		
1400-221	MC05/07P/D-014	Poster
EFFECT OF A CONVECTIVELY INDUCED GRAVITY WAVE DRAG PARAMETERIZATION ON HEAVY RAIN CASES SIMULATED BY MESOSCALE MODEL (MM5) So-Young KIM, Hye-Yeong CHUN		
1400-222	MC05/07P/D-015	Poster
STRATOSPHERE DYNAMICS OBSERVED BY MST RADARS. Hubert LUCE, Michel CROCHET, Francis DALAUDIER, Shoichiro FUKAO, Mamoru YAMAMATO		

MC08 Monday, July 7 PM

FUTURE CHANGES IN GLOBAL AND REGIONAL CLIMATE (ICDCL)	
Location: Site B, Room 17	
Presiding Chairs: I.I. Mokhov, Y. Sato	

1400	MC08/07P/B17-001
THE FUTURE CHANGE OF THE VARIABILITY AND EXTREMES OF DAILY RAINFALL EVENTS DURING THE INDIAN SUMMER MONSOON SIMULATED IN A GLOBAL TIME-SLICE EXPERIMENT Wilhelm MAY	
1415	MC08/07P/B17-002
FUTURE PROJECTIONS OF EAST ASIAN CLIMATE USING MULTI-MODEL ENSEMBLES OF IPCC SRES SCENARIO SIMULATIONS Seung-Ki MIN, E-Hyung PARK, Won-Tae KWON	
1430	MC08/07P/B17-003
PROJECTIONS OF CLIMATE CHANGE OF EXTREME EVENTS IN THE 21ST CENTURY OVER EAST ASIA Zong-ci ZHAO, Akimasa SUMI, Chikako HARADA, Toru NOZAWA	
1445	MC08/07P/B17-004
THE INTENSIFICATION AND SHIFT OF THE NORTH ATLANTIC OSCILLATION IN A GLOBAL WARMING SCENARIO SIMULATION Zeng-Zhen HU	

1500	BREAK
1520	MC08/07P/B17-005
THE CHANGE OF THE GLOBAL WATER CYCLE AROUND 2050 SIMULATED BY THE MRI GCM Masahiro HOSAKA, Akio KITO, Yasuhiro MURATA, Yukimasa ADACHI	
1535	MC08/07P/B17-006
REGIONAL CLIMATES UNDER DIFFERENT WARMING SCENARIOS: EFFECTS OF DYNAMICS AND THERMODYNAMICS Pier Luigi VIDALE, Cornelia SCHWIERZ, Daniel LUETHI, Christoph FREI, Christoph SCHAEER	
1550	MC08/07P/B17-007
SIMULATION OF THE RECENT ANTARCTIC PENINSULA WARMING IN THE IPSL-CM2 COUPLED GCM Sebastien CONIL, Claudio MENENDEZ, Carolina VERA	
1605	MC08/07P/B17-008
CLIMATE CHANGE SCENARIOS FOR THE ARCTIC REGION BASED ON COUPLED GLOBAL CLIMATE MODEL SIMULATIONS Stanislav V. VAVULIN	

1620	BREAK
1640	MC08/07P/B17-009
STATISTICAL DOWNSCALING OF GENERAL CIRCULATION MODEL OUTPUT FOR DRAINAGE DESIGN PURPOSES Yiping GUO	
1655	MC08/07P/B17-010
ARE THE REGULARITIES IN CLIMATE CHANGE FIELDS? Roman M. COROBOV	
1710	MC08/07P/B17-011
ON THE DEVELOPMENT OF A REGIONAL CLIMATE MODEL FOR THE CENTRAL EUROPE Tomas HALENKA, Radan HUTH, Ladislav METELKA, Richard MLADEK, Ales FARDA, Stanislava KLIEGROVA, Jan KYSELY, Lucie POKORNA, Zuzana HUTHOVA, Martin JANOUSEK	

MC12 **Monday, July 7 PM**

THE CLIMATE OF THE HOLOCENE (ICCI)

Location: Site B, Room 19

Presiding Chair: M. Mann

1415 MC12/07P/B19-001

Invited

LATE HOLOCENE CLIMATE VARIATIONS AND THEIR RELATIONSHIP TO FORCING MECHANISMS

Raymond Stuart BRADLEY

1445 MC12/07P/B19-002

REGIME OF CAUCASUS MOUNTAIN GLACIERS DURING HOLOCENE OPTIMUM: FIRST EXPERIENCE OF ESTIMATION

Maria Dmitrievna ANANICHEVA, Natalia V. DAVIDOVICH

1500 MC12/07P/B19-003

A CARBONATE MOUND POPULATION ON THE WESTERN MARGIN OF THE PORCUPINE BANK: EVIDENCE FOR NORTH ATLANTIC PALAEOCLIMATIC CONTROLS ON A COLD-WATER CORAL ECOSYSTEM

Brian M. O'REILLY, Peter W. READMAN, Patrick M. SHANNON

1515 MC12/07P/B19-004

TRANSIENT SIMULATION OF ABRUPT CLIMATE CHANGE INDUCED BY FRESHWATER INPUT FROM LAURENTIAN ICE SHEET TO THE NORTH ATLANTIC OCEAN

Pavel Alekseevich TOROPOV, Alexander Victorovich KISLOV, Sergey Nikolaevich MOSHONKIN

1530 BREAK

1545 MC12/07P/B19-005

BIOGEOCHEMICAL EVIDENCE OF VEGETATION CHANGES IN THE TROPICAL WETLAND DURING MID-LATE HOLOCENE

Shafi Mohammad TAREQ, Noriyuki TANAKA, Keiichi OHTA

1600 MC12/07P/B19-006

RECONSTRUCTION OF HISTORY OF FOREST FIRE RECORDED IN PEAT DEPOSIT IN RAWA DANAU, WEST-JAVA, INDONESIA DURING MID-LATE HOLOCENE

Hiroyuki TSUJI, Noriyuki TANAKA, Shafi Mohamad TAREQ, Keiichi OHTA, Muhamad Rahman DJUWANSAH, Hisashi NARITA

S

IASPEI

SS03 **Monday, July 7 PM**

TECTONOPHYSICS AND CRUSTAL STRUCTURE

Location: Site A, Room 2

Presiding Chairs: R. Clowes, A. Gorbатов

1400 SS03/07P/A02-001

ORIGIN OF GREAT DEPTHS OF THE PALAU AND YAP TRENCHES

Kazuo KOBAYASHI

1415 SS03/07P/A02-002

VOLCANIC-HYDROTHERMAL ACTIVITIES AND SEGMENTATION STRUCTURE OF THE AXIAL RIFT IN THE WESTERN OKINAWA TROUGH

Takeshi MATSUMOTO, Mamoru NAKAMURA, Jean-Claude SIBUET, Chao-Shing LEE, Ryuichi SHINJO

1430 SS03/07P/A02-003

NUMERICAL SIMULATION OF TECTONIC DEFORMATION WITH DISCRETE ELEMENT METHOD (DEM)

Yasuhiro YAMADA, Atsushi TANAKA, Toshi MATSUOKA

1445 SS03/07P/A02-004

CRUSTAL GROWTH AND RECYCLING: AN OVERVIEW OF RESULTS FROM THE CANADIAN LITHOPROBE PROGRAM

Ron M. CLOWES

1500 SS03/07P/A02-005

BIFROST PROJECT: FENNOSCANDIAN CRUSTAL STRAIN RATE FROM CONTINUOUS GPS OBSERVATIONS AND SEISMICITY

Hans G. SCHERNECK, Ruediger HAAS, Ronald ARVIDSSON, Sten BERGSTRAND, Jan JOHANSSON, Glenn A. MILNE

1515 SS03/07P/A02-006

SOME PECULIARITIES OF THE STRUCTURE OF THE EARTH'S CRUST IN THE CENTRAL ASIA (A REGIONAL PROFILE-ROMITAN-DARBAZATAOU IS TAKEN AS AN EXAMPLE)

Oleg Petrovich MORDVINTSEV

1530 BREAK

1600 SS03/07P/A02-007

A POSSIBLE DEEP, LONG-TERM SOURCE FOR WATER IN THE NORTHERN SAN ANDREAS FAULT SYSTEM AND OTHER BROAD PLATE-BOUNDARY ZONES: A GHOST OF SUBDUCTION PAST?

Stephen Homer KIRBY, Kelin WANG, Thomas M. BROCHER

1615 SS03/07P/A02-008

EARTHQUAKE ACTIVITY IN THE MESSINA STRAIT AREA, SOUTH ITALY, POSSIBLE INTERPRETATIONS AND HAZARD IMPLICATIONS

Giancarlo NERI, Graziella BARBERI, Barbara ORECCHIO

1630 SS03/07P/A02-009

LITHOSPHERIC DELAMINATION AND BUOYANCY-DRIVEN DEFORMATIONS IN THE CENTRAL APENNINES, ITALY

Abdelkrim AOUDIA, Alik T. ISMAIL-ZADEH, Giuliano F. PANZA

1645 SS03/07P/A02-010

PORE PRESSURE RELATED SEISMICITY IN CRITICAL EARTH - A MODEL OF THE PHENOMENON AND APPROACHES TO THE MEDIUM CHARACTERIZATION

Serge A. SHAPIRO, Susanne RENTSCH, Elmar ROTHERT, Miltiadis PAROTIDIS

1700 SS03/07P/A02-011

RHEOLOGY OF THE LITHOSPHERE INFERRED FROM POSTSEISMIC DEFORMATION IN NORTHERN JAPAN AND WESTERN US

Takuya NISHIMURA, Wayne THATCHER

1715 SS03/07P/A02-012

STRAIN ACCUMULATION MODEL ON THE ATOTUGAWA FAULT SYSTEM, AN INLAND ACTIVE FAULT SYSTEM, LOCATED IN THE HIGH-STRAIN RATE ZONE, CENTRAL JAPAN

Kazuro HIRAHARA, Mamoru HYODO, Yoichi OOI

1730 SS03/07P/A02-013

CRUSTAL STRUCTURE BENEATH THE YINGGEHAI BASIN AND ADJACENT HAINAN ISLAND, AND ITS TECTONIC IMPLICATION

Shimin WU, Xuelin QIU, Gangping ZENG, Di ZHOU, Kanyua XIA, Saijun LIU, Sanyu YE

1745 SS03/07P/A02-014

POST SEISMIC CRUSTAL DEFORMATION IN KUTCH REGION OF GUJARAT, INDIA

Chappidi D. REDDY, Kaoru MIYASHITA, Teruyuki KATO

SS04 **Monday, July 7 PM**

STRONG GROUND MOTION, EARTHQUAKE HAZARD AND RISK

Location: Site A, Room 3

Presiding Chairs: C. Yun-tai, P. Suhadolc

1400 SS04/07P/A03-001

Invited

GROUND MOTION MODELLING AND DAMAGE EARTHQUAKE SCENARIOS: A POSSIBLE BRIDGE BETWEEN SEISMOLOGISTS AND SEISMIC ENGINEERS

Giuliano Francesco PANZA, Luis DECANINI, Fabrizio MOLLAIOLI, Fabio ROMANELLI, Franco VACCARI

1430 SS04/07P/A03-002

STRONG GROUND MOTIONS FOR SCENARIO EARTHQUAKES IN THE SAN BERNARDINO BASIN REGION, CALIFORNIA

Robert W. GRAVES

1445 SS04/07P/A03-003

SCENARIO BASED STRONG GROUND MOTION MODELING IN ISTANBUL AND THE ADJACENT REGIONS

Nelson PULIDO, Anibal OJEDA, Kuvvet ATAKAN

1500 SS04/07P/A03-004

SCENARIO EARTHQUAKES FOR EMERGENCY RESPONSE AND PREPAREDNESS IN BEIJING URBAN REGION

Mengtian GAO, Yanxiang YU

1515 SS04/07P/A03-005

ACTIVE FAULTING AND GROUND SHAKING SCENARIOS ESTIMATES USING EXTENDED SEISMIC SOURCES AT THE ALPS-DINARIDES JUNCTION

Francesca FITZKO, Abdelkrim AOUDIA, Angela SARAO, Peter SUHADOLC, Giovanni COSTA

1530 SS04/07P/A03-006

SIMULATION OF STRONG GROUND MOTION IN METROPOLITAN MANILA, PHILIPPINES

Hiroaki YAMANAKA, Nobuyuki YAMADA, Chihoko KUMADA, Motoi TAKEZONO, Janila R. BAUL-DEOCAMPO, Robert B. TIGLAO, Bartolome C. BAUTISTA

1545 SS04/07P/A03-007

SIMULATION ANALYSIS OF GROUND MOTIONS IN KOBE CITY DURING THE 2000 TOTTORI-KEN SEIBU EARTHQUAKE USING 3D FINITE-DIFFERENCE METHOD COMBINING NONUNIFORM AND DISCONTINUOUS GRIDS

Masayuki NAGANO

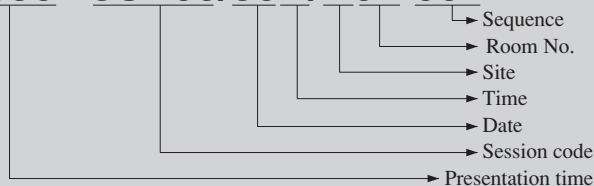
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1600	BREAK
1615	SS04/07P/A03-008
STRONG MOTION PREDICTION FOR INLAND EARTHQUAKES IN FUKUOKA CITY AND KUMAMOTO CITY, JAPAN AND THEIR DAMAGE IMPACT	
Hiroshi KAWASE, Arichika MASUDA	
1630	SS04/07P/A03-009
SYNTHESIS OF STRONG MOTION, ATTENUATION CHARACTERISTICS (CODA) AND ISOSEISMALS IN INDIAN REGION	
Brijesh Kumar BANSAL, Hari Narayana SRIVASTAVA	
1645	SS04/07P/A03-010
LARGE SCALE PARALLEL 3D SIMULATION OF SEISMIC WAVE PROPAGATION AND STRONG GROUND MOTIONS USING THE EARTH SIMULATOR	
Takashi FURUMURA	
1700	SS04/07P/A03-011
3D FINITE-DIFFERENCE SEISMIC MODELING - COMBINED EFFECTS BY HYBRID METHODS	
Ivo OPRŠAL, Johana BROKESOVÁ, Jiri ZÁHRADNÍK, Domenico GIARDINI	
1715	SS04/07P/A03-012
A THEORETICAL METHOD FOR COMPUTING NEAR-FAULT GROUND MOTIONS IN LAYERED HALF-SPACES CONSIDERING STATIC OFFSET DUE TO SURFACE FAULTING- WITH PHYSICAL INTERPRETATION OF FLING STEP AND RUPTURE DIRECTIVITY -	
Yoshiaki HISADA, Jacobo BIELAK	
1730	SS04/07P/A03-013
3-D MODELING OF SEISMIC GROUND MOTION PROPAGATION IN THE KANTO BASIN, JAPAN	
Kazuki KOKETSU, Kazuki KOKETSU, Afnimar, Takashi FURUMURA	
1745	SS04/07P/A03-014
THREE-DIMENSIONAL SIMULATION OF SEISMIC MOTIONS IN THE NORTHWESTERN CHIBA PREFECTURE, JAPAN	
Sadanori HIGASHI, Hiroaki SATO	

Paper Numbers

Oral Presentation

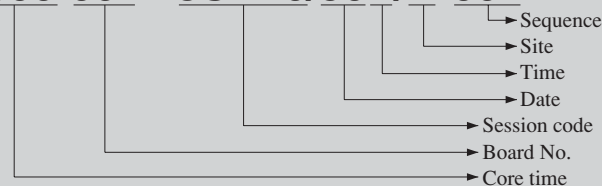
0830 JSV03/30A/A01-001



Example: 0830 JSV03/30A/A01-001 = Presentation begins at 8:30, JSV03, June 30, presentation in the morning (AM), Site A, Room 1, first paper in that session

Poster Presentation

1600-001 JSA10/30P/D-001



Example: 1600-001 JSA10/30P/D-001 = Core time begins at 16:00, Poster Board No.: 001, JSA10, June 30, core time in the afternoon (PM), Site D, first paper in that session

Tuesday, July 8 AM

IA INTER-ASSOCIATION

JSG01 Tuesday, July 8 AM

SECULAR, TRANSIENT AND PERIODIC CRUSTAL MOVEMENTS AND THEIR GEOPHYSICAL IMPLICATIONS (IAG, IASPEI)

Location: Site A, Room 1

Presiding Chair: K. Heki

0900 JSG01/08A/A01-001
THE KINEMATICS OF ANATOLIA: SPECTRAL ANALYSIS OF CONTINUOUS GPS DATA

Ali TURKEZER, Onur LENK, Ali Ihsan KURT, Semih ERGINTAV

0915 JSG01/08A/A01-002
DEFORMATION IN YELLOWSTONE'S UPPER GEYSER BASIN: ARE DEEP PRESSURE FLUCTUATIONS DRIVING FLUID FLOW AT OLD FAITHFUL GEYSER?

Anahita A. TIKKU, David C. MCADOO, Mark S. SCHENEWERK, Ralph C. TAYLOR

0930 JSG01/08A/A01-003
SIGNAL OF ATMOSPHERIC PRESSURE LOADING IN LASER RANGING DATA
Toshimichi OTSUBO, Toshihiro KUBO-OKA, Tadahiro GOTOH, Ryuichi ICHIKAWA

0945 JSG01/08A/A01-004
RESPONSE OF WELL WATER LEVEL TO HEIGHT CHANGE IN HAMAOKA, SHIZUOKA PREFECTURE, JAPAN
Norio MATSUMOTO, Makoto TAKAHASHI, Ryu OHTANI, Naoji KOIZUMI

1000 JSG01/08A/A01-005
A STUDY ON SEASONAL VARIATION OF LEVELNG DATA IN OMAEZAKI REGION
Tetsuro IMAKIIRE, Minoru TAJIMA

1015 JSG01/08A/A01-006
ENVIRONMENTAL EFFECTS AND OCEAN TIDAL LOADING IN TILT DATA OF NOKOGIRIYAMA OBSERVATORY
Steffen GRAUPNER, Hiroshi ISHII, Gerhard JENTZSCH, Shigeru NAKAO, Adelheid WEISE

1030 BREAK

1050 JSG01/08A/A01-007
ON THE SEASONAL VARIATIONS OBSERVED IN THE GSI SOUTH PACIFIC GPS NETWORK SOLUTIONS
Hiroshi MUNEKANE, Shigeru MATSUZAKA

1105 JSG01/08A/A01-008
STABILITY OF GEODETIC REFERENCE POINTS IN PERMAFROST REGION - A CASE STUDY
Hans-J. KUEMPEL, Marcus FABIAN

1120 JSG01/08A/A01-009
ON THE VERTICAL CRUSTAL MOTION AND GRAVITY AT METSÄHOVI, FINLAND
Heikki J. VIRTANEN, Joel J. AHOLA

1135 JSG01/08A/A01-010
THE SOLID EARTH RESPONSE ON CHANGING ICE LOADS IN WEST GREENLAND INFERRED FROM REPEATED GPS OBSERVATIONS
Reinhard DIETRICH, Axel RUELKE, Mirko SCHEINERT

1150 JSG01/08A/A01-011
DERIVING NEW CONSTRAINTS ON GLACIAL LOAD HISTORY BY GEODETIC OBSERVATIONS IN DRONNING MAUD LAND, ANTARCTICA
Mirko SCHEINERT, Erik IVINS, Reinhard DIETRICH, Axel RUELKE

1205 JSG01/08A/A01-012
VERTICAL MOTION AND GLACIAL ISOSTATIC ADJUSTMENT IN THE GREAT LAKES REGION
Alexander BRAUN, C.K. SHUM, Laramie V. POTTS, Chung-Yen KUO, Andrew TRUPIN

JSA01 Tuesday, July 8 AM

LONG-TERM TRENDS IN THE MESOSPHERE, THERMOSPHERE AND IONOSPHERE (IAGA, IAMAS)

Location: Site A, Room 12

Convener: J. Lastovicka
Co-Convener: G.E. Thomas
Presiding Chairs: J. Lastovicka, A. Danilov

0905 JSA01/08A/A12-001
REVIEW OF TRENDS IN MESOSPHERIC TEMPERATURES
Gufran BEIG

0935 JSA01/08A/A12-002
IMPACT OF NATURAL VARIABILITY IN THE 11-YEAR MESOPAUSE REGION TEMPERATURE OBSERVATION OVER FORT COLLINS, CO (41N, 105W)
Chiao-Yao SHE, David A. KRUEGER

0955 JSA01/08A/A12-003
AN UPDATE ON GREEHOUSE COOLING IN THE MESOSPHERE AND THERMOSPHERE
Rashid A. AKMAEV

1025 JSA01/08A/A12-004
TRENDS IN CHEMICAL COMPOSITION OF THE MESOSPHERE INDUCED BY LONG-TERM CHANGES OF ATMOSPHERIC BASIC PARAMETERS (MIDDLE LATITUDES)
Alexei A. KRIVOLUTSKY, Tatyana Yu. VYUSHKOVA, Vladimir N. GLAZKOV

1045 BREAK

1115 JSA01/08A/A12-005
THE INFLUENCE OF INCREASING GREENHOUSE GASES ON THE STRUCTURE AND COMPOSITION OF THE MESOSPHERE AND LOWER THERMOSPHERE
Daniel R. MARSH, Douglas KINNISON, Fabrizio SASSI, Rolando R. GARCIA, Byron A. BOVILLE

1145 JSA01/08A/A12-006
TRENDS IN NOCTILUCENT CLOUDS - NEW RESULTS
Sheila Catherine KIRKWOOD

1215 JSA01/08A/A12-007
LONG-TERM TREND OF MESOPAUSE SCENERIO
Dipak K. CAKRABARTY

WEEK B
TUE
AM

JSH01
Tuesday, July 8 AM

THE REMOTE SENSING OF THE CRYOSPHERE (IAHS [ICSI, ICRS], IAMAS, IAPSO)
 Location: Site C, Room 27

Presiding Chair: R. Armstrong

SNOW PROPERTIES

0910 JSH01/08A/C27-001
 CRYOSPHERIC REMOTE SENSING AND THE NASA COLD LAND PROCESSES FIELD EXPERIMENT
 Edward KIM, Don CLINE, Robert DAVIS

0930 JSH01/08A/C27-002
 PRELIMINARY RESULTS FROM THE VALIDATION OF SNOW COVER PRODUCTS DERIVED FROM AMSR-E
 Richard L. ARMSTRONG, Mary Jo BRODZIK, Matt SAVOIE, Ken KNOWLES

0950 JSH01/08A/C27-003
 MULTISENSOR REMOTE SENSING OF SNOW COVER
 Sverre Thune DOKKEN, Rune SOLBERG, Jostein AMLIEN, Rune ØDEGÅRD, Per-Ove HUSØY, Hans KOREN

1010 BREAK

1030 JSH01/08A/C27-004
 USE OF THE TOPEX-POSEIDON ALTIMETER OVER LAND SURFACES AN APPLICATION TO ESTIMATE TERRESTRIAL SNOW DEPTH
 Fabrice PAPA, Benoit LEGRESY, Frederique REMY

1050 JSH01/08A/C27-005
 INTERANNUAL VARIABILITY OF BRIGHTNESS TEMPERATURE OVER SNOW COVERED REGION
 Ramesh P. SINGH, V.D. MISHRA, P. MATHUR, Netramani HARIJAN, Sagnik DEY, Nitin KATIYAR, S.P. SINGH, Y.P. SINGH

1110 JSH01/08A/C27-006
 IMPROVING THE SNOW DEPTH ESTIMATION OF SMM/I IMAGES IN TIBET PLATEAU BY USING THE AVHRR DATA
 Mingguo MA

JSM03
Tuesday, July 8 AM

LAND-OCEAN-ATMOSPHERE INTERACTIONS IN THE COASTAL ZONE (IAMAS, IAPSO, IAHS)
 Location: Site A, Room 13

Convener: G.L. Geernaert
 Co-Convener: M.V. Bolgov
 Presiding Chair: G.L. Geernaert

0900 JSM03/08A/A13-001
 LAND - OCEAN INTERACTION FOR INTEGRATED COASTAL ZONES MANAGEMENT
 Lalitkumar Pandit CHAUDHARI

0920 JSM03/08A/A13-002
 FRESHENING OF COASTAL GROUNDWATER SYSTEMS DURING SEA REGRESSIONS:EXAMINING THE TRANSITION ZONE THROUGH NUMERICAL EXPERIMENTS
 Michele R. MINIHANE, Henk KOOI

0940 JSM03/08A/A13-003
 SALINIZATION ALONG PARTS OF THE EAST COAST OF INDIA IN THE CONTEXT OF CLIMATE CHANGE
 U. ASWATHANARAYANA

1000 JSM03/08A/A13-004
 VERTICAL AND HORIZONTAL STRUCTURE OF THE ATMOSPHERIC BOUNDARY LAYER OBSERVED BY A MOBILE AIRPLANE (AEROZONDE) OVER SUB-TROPICAL OCEAN UNDER THE SUPPRESSED CONDITION
 Atsushi HIGUCHI, Tetsuya HIYAMA, Taro SHINODA, Hiroki TANAKA, Hiroshi UYEDA, Kenji NAKAMURA

1020 BREAK

1040 JSM03/08A/A13-005
 SIMULATIONS OF THE SUBTROPICAL SEA BREEZE
 Kevin WALTER, John W. NIELSEN-GAMMON, Craig EPIFANIO

1100 JSM03/08A/A13-006
 GAP WIND-INDUCED SUMMER UPWELLING IN THE SOUTH CHINA SEA AND ITS INTERANNUAL VARIATIONS
 Qiang XIE, Shang-Ping XIE, Haiming XU, Dongxiao WANG, W. Timothy LIU

1120 JSM03/08A/A13-007
 THE APPEARANCE OF PROUDMAN RESONANCE AND HARBOUR SEICHES IN THE AREA OF SPLIT (ADRIATIC SEA)
 Ivica VILIBIC, Hrvoje MIHANOVIC

1140 JSM03/08A/A13-008
 MECHANISMS OF NIGHT-MORNING RAINS OFF A MOUNTAINOUS TROPICAL COAST
 Brian E. MAPES, Thomas T. WARNER, Mei XU, Andrew NEGRI

JSM10
Tuesday, July 8 AM

CRYOSPHERE-CLIMATE INTERACTIONS (IAMAS [ICCL, ICPM], IAPSO, IAHS)
 Location: Site B, Room 23

Presiding Chair: H. Hellmer

CLIMATE VARIABILITY AND CLIMATE CHANGE

0830 JSM10/08A/B23-001
 HIGH-LATITUDE CLIMATIC RESPONSE TO ENHANCED GREENHOUSE FORCING
 John E. WALSH

0910 JSM10/08A/B23-002
 RESPONSE OF THE PAN ARCTIC AND NORTH ATLANTIC OCEAN CLIMATE TO THE ARCTIC OSCILLATION
 Jia WANG, Bingyi WU, Moto IKEDA, John E. WALSH

0930 JSM10/08A/B23-003
 NORTHERN HEMISPHERE SEA ICE VARIABILITY AND ITS LINKAGE TO THE NAO AND ENSO
 Jinro UKITA, Meiji HONDA, Hisashi NAKAMURA, Yoshihiro TACHIBANA, Hiroshi KOIDE, Donald J. CAVALIERI, Claire L. PARKINSON

0950 JSM10/08A/B23-004
 NORTHERN HEMISPHERE CLIMATIC COVARIABILITY BETWEEN CRYO-, HYDRO- ANDATMOSPHERE ON SEASONAL TO SUB-DECADAL TIME SCALE
 Kazuyuki SAITO, Judah COHEN

1010 JSM10/08A/B23-005
 THE POTENTIAL ROLE OF SNOW COVER IN FORCING SEASONAL-TO-INTERANNUAL VARIABILITY OF THE MAJOR NORTHERN HEMISPHERE MODE
 Judah L. COHEN, Kazuyuki SAITO

1030 BREAK

1050 JSM10/08A/B23-006
 CLOUD EFFECTS ON THE DECAYING TREND IN THE ARCTIC ICE COVER
 Motoyoshi IKEDA, Jia WANG, Alexander MAKSHITAS

1110 JSM10/08A/B23-007
 IMPACTS OF CLIMATE CHANGE IN THE ARCTIC
 Gunter E. WELLER

1130 JSM10/08A/B23-008
 CLIMATE CHANGE IN THE POLAR REGIONS MODELLED BY THE CSIRO MK3 COUPLED MODEL
 Siobhan OFARRELL, Hal GORDON

1150 JSM10/08A/B23-009
 THE IMPACT OF THE VARIABILITY IN SEA ICE ON THE CLIMATE OF THE ANTARCTIC PENINSULA IN A GLOBAL CLIMATE MODEL.
 Tom LACHLAN-COPE

1210 JSM10/08A/B23-010
 MODELING THE ENSO MODULATION OF ANTARCTIC CLIMATE IN THE LATE 1990S WITH POLAR MM5
 David H. BROMWICH, Andrew J. MONAGHAN, Zhichang GUO

JSM10
Tuesday, July 8 AM

1030 BREAK

1050 JSM10/08A/B23-006
 CLOUD EFFECTS ON THE DECAYING TREND IN THE ARCTIC ICE COVER
 Motoyoshi IKEDA, Jia WANG, Alexander MAKSHITAS

1110 JSM10/08A/B23-007
 IMPACTS OF CLIMATE CHANGE IN THE ARCTIC
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 CLIMATE CHANGE IN THE POLAR REGIONS MODELLED BY THE CSIRO MK3 COUPLED MODEL
 Siobhan OFARRELL, Hal GORDON

1150 JSM10/08A/B23-009
 THE IMPACT OF THE VARIABILITY IN SEA ICE ON THE CLIMATE OF THE ANTARCTIC PENINSULA IN A GLOBAL CLIMATE MODEL.
 Tom LACHLAN-COPE

1210 JSM10/08A/B23-010
 MODELING THE ENSO MODULATION OF ANTARCTIC CLIMATE IN THE LATE 1990S WITH POLAR MM5
 David H. BROMWICH, Andrew J. MONAGHAN, Zhichang GUO

JSM14
Tuesday, July 8 AM

DYNAMICS AND PREDICTABILITY OF SEVERE WEATHER EVENTS (IAMAS [ICDM, ICCP], IAHS)
 Location: Site A, Room 5

Presiding Chairs: J. Abraham, H. Uyeda

0835 JSM14/08A/A05-001
Invited
 CHINA HEAVY RAINFALL EXPERIMENT AND STUDY (CHERES)
 Yunqi NI

0910 JSM14/08A/A05-002
 A CASE STUDY ON THE EVOLUTION OF A MESO-?-LOW IN ASSOCIATION WITH THE MEIYU FRONTAL ACTIVITY OVER CHINA AROUND 28 JUNE 1999
 Kuranoshin KATO, Yafei WANG

0925 JSM14/08A/A05-003
 A NUMERICAL EXPERIMENT OF A MESOSCALE DISTURBANCE ALONG THE MEI-YU FRONT OBSERVED DURING GAME/HUBEX 98
 Kozo NAKAMURA, Yasushi FUJIYOSHI, Kazui SAITO, Masanori YOSHIKAZI

0940 JSM14/08A/A05-004
THE STRUCTURE AND EVOLUTION OF A RAINBAND INDUCING HEAVY RAINFALL IN THE DOWNSTREAM OF YANGTZE RIVER
Biao GENG, Hiroyuki YAMADA, Krishna REDDY, Hiroshi UYEDA

0955 JSM14/08A/A05-005
SYNOPTIC-SCALE DYNAMICS OF 18-DAY LONG CONSECUTIVE MESOSCALE CONVECTIVE SYSTEMS DURING THE HEAVY RAIN PERIOD OF 1998
Dong-Kyou LEE, Jeong-Gyun PARK, Jo-Han LEE

1010 JSM14/08A/A05-006
SEVERE EAST-ASIAN MONSOON STORM SYSTEMS AND CLOUD PRECIPITATION PARTICLES
Tsutomu TAKAHASHI

1025 BREAK

1040 JSM14/08A/A05-007 Invited
REVIEWS OF FIELD OBSERVATIONS ON MESOSCALE CONVECTIVE SYSTEMS OVER EAST CHINA SEA AND KYUSHU IN THE BAIU SEASON AND OVER THE JAPAN SEA IN WINTER
Masanori YOSHIZAKI, Teruyuki KATO, Chiashi MUROI, Hisaki EITO, Shugo HAYASHI

1115 JSM14/08A/A05-008
STRUCTURE OF A COLD FRONT INDUCING A HEAVY RAINFALL DURING X-BAIU-99
Teruyuki KATO

1130 JSM14/08A/A05-009
STRUCTURE AND FORMATION PROCESS OF AN OROGRAPHIC LINE-SHAPED SYSTEM DURING BAIU SEASON IN WESTERN KYUSHU, JAPAN
Ayako NAKAMURA, Hiroshi UYEDA, Osamu MORITA, Yasufumi KITAZAKI, Hideki BEPPU

1145 JSM14/08A/A05-010
CASE STUDY OF A DISSIPATING CLOUD CLUSTER: A TRMM-AIRCRAFT SIMULTANEOUS OBSERVATION
Sento NAKAI, Kenji NAKAMURA, Haruya MINDA, Hiromu SEKO

1200 JSM14/08A/A05-011
A HIGH-RESOLUTION WIDE-RANGE NUMERICAL SIMULATION OF CLOUD BANDS ASSOCIATED WITH THE JAPAN SEA POLAR-AIR MASS CONVERGENCE ZONE (JPCZ) IN WINTER USING A NON-HYDROSTATIC MODEL ON THE EARTH SIMULATOR
Hisaki EITO, Chiashi MUROI, Syugo HAYASHI, Jun-ichi ISHIDA, Kouhei ARANAMI, Teruyuki KATO, Masanori YOSHIZAKI, Takayo MATSUO

1215 JSM14/08A/A05-012
DIABATICALLY FORCED CIRCULATIONS AS TRIGGER FOR THE RELEASE OF STRONG CONVECTION
Manfred KURZ

JSP06 Tuesday, July 8 AM

THE GLOBAL OCEAN OBSERVING SYSTEM (IAPSO, IAG, IOC)
Location: Site B, Room 21

Presiding Chair: H. Kawamura

0900 JSP06/08A/B21-001
ANNUAL TO INTERANNUAL VARIABILITY IN THE GLOBAL INTEGRAL OF UPPER-OCEAN HEAT CONTENT
Josh K. WILLIS, Dean ROEMMICH, Bruce CORNUELLE

0920 JSP06/08A/B21-002
COMBINED USE OF ALTIMETRY AND IN-SITU DATA FOR OCEAN CLIMATE MONITORING
Shiro IMAWAKI, Hiroshi UCHIDA, Daisuke AMBE

0950 JSP06/08A/B21-003
UPPER OCEAN DYNAMICS IN THE TROPICAL AND SOUTH ATLANTIC FROM HIGH DENSITY XBT LINES AX08 AND AX18
Gustavo Jorge GONI, Molly O'Neil BARINGER, Silvia Lucia GARZOLI, Qi YAO, Claudia SCHMID

1010 BREAK

1040 JSP06/08A/B21-004
OPERATIONAL ALTIMETRY : SSALTO/DUACS READY FOR GODAE
Pierre-Yves LE TRAON

1100 JSP06/08A/B21-005
GODAE: THE GLOBAL OCEAN DATA ASSIMILATION EXPERIMENT
Neville Ross SMITH

1130 JSP06/08A/B21-006
THE ECCO ROUTINE GLOBAL OCEAN DATA ASSIMILATION SYSTEM
Ichiro FUKUMORI, Tong LEE, Dimitris MENEMENLIS

JSP07 Tuesday, July 8 AM

THE COASTAL OCEAN OBSERVING SYSTEM (IAPSO, IAG, IOC)
Location: Site B, Room 17

Convener: C. Jago
Co-Conveners: J. Fernandes, T. Aarup
Presiding Chair: C. Jago

0900 JSP07/08A/B17-001 Invited
STUDYING BIOGEOCHEMICAL PROCESS ON THE MID-ATLANTIC CONTINENTAL SHELF USING AN OCEAN OBSERVATORY
Oscar SCHOFIELD, Scott GLENN, Robert CHANT

0930 JSP07/08A/B17-002
THE CAROLINA COASTAL OCEAN OBSERVATION AND PREDICTION PROJECT
Lian XIE, Leonard J. PIETRAFESA, John M. MORRISON

0950 JSP07/08A/B17-003
THE EUROPEAN SEA LEVEL SERVICE (ESEAS): A CONTRIBUTION TO THE COASTAL OCEAN OBSERVING SYSTEM
Hans-Peter PLAG

1010 JSP07/08A/B17-004
AN INTEGRATED OBSERVING AND MODELING SYSTEM FOR TAMPA BAY, FLORIDA
Mark E. LUTHER, Steven D. MEYERS, Sherryll A. GILBERT, Vembu SUBRAMANIAN

1030 BREAK

1100 JSP07/08A/B17-005
A NEW TECHNOLOGY FOR THE COASTAL-SEA ENVIRONMENT MONITORING-COASTAL ACOUSTIC TOMOGRAPHY (CAT)-
Arata KANEKO, Noriaki GOHDA, Hong ZHENG, Keisuke YAMAGUCHI, Ju LIN, Fadli SYAMSUDIN, Hidetaka TAKEOKA, Masaji MATSUYAMA, Yoshio TAKASUGI

1120 JSP07/08A/B17-006
WAVEFORM RETRACKING OF T/P ALTIMETER IN CHINA SEAS AND ITS VICINITY
Lifeng BAO, Yang LU, Hou-Tse HSU

1140 JSP07/08A/B17-007
MONITORING OF OIL POLLUTION WITH MOBIL AUTONOMOUS LANDER PLATFORMS AS A PART OF THE COASTAL OCEAN OBSERVING SYSTEM
Alexei Evgenievich KONTAR, Leopold Isaevich LOBKOVSKY

1200 JSP07/08A/B17-008
MORPHODYNAMIC CHARACTERIZATION OF THE FORESHORE USING PERIODIC DGPS OBSERVATIONS: THE AVEIRO LAGOON BEACH CASE
Paulo BAPTISTA, Luisa BASTOS, Cristina BERNARDES, Oscar FERREIRA, Alveirinho DIAS

JSP11 Tuesday, July 8 AM

GEOPHYSICAL RISK AND VULNERABILITY: THE POPULATION-HAZARD INTERACTION (IAPSO, IAGA, IAHS, IAMAS, IASPEI, IAVCEI)
Location: Site A, Room 10

Presiding Chair: P. Dunbar

0900 JSP11/08A/A10-001 Invited
ASSESSMENT OF TSUNAMI HAZARD FOR DIFFERENT COASTAL AREAS IN THE PACIFIC
Viatcheslav K. GUSIAKOV

0930 JSP11/08A/A10-002
STRENGTHENING THE MAPPING SYSTEM OF JAKARTA (INDONESIA) FOR FLOOD HAZARD MITIGATION MANAGEMENT
Hasanuddin Zainal ABIDIN, Samsul HADI, Joenil KAHAR, Rudolf MATINDAS

0950 JSP11/08A/A10-003
LANDSLIDE HAZARD MONITORING AND SURVEY OF THE VITAL AREAS IN INDONESIA
Suroono

1010 JSP11/08A/A10-004
SUSTAINABLE COASTAL DEVELOPMENT: PERSPECTIVES OF LOCAL KNOWLEDGE AND COMMUNITY-BASED CO-MANAGEMENT IN SOUTHEAST ASIAN COASTAL COMMUNITY
Md. SALEQUZZAMAN

1030 BREAK

WEEK
B
TUE
AM

1050 JSP11/08A/A10-005
MONITORING DROUGHT OVER NORTH-EAST OF I. R. OF IRAN USING
STANDARDIZED PRECIPITATION INDEX (SPI)
Javad BODAGHJAMALI, AliMohammad NOORIAN, Sohaila JAVANMARD,
Abdolhosein MOGHADAM, Reza SHIRMOHAMADI

1110 JSP11/08A/A10-006 Invited
ECOLOGICAL POLICY AND RISK ASSESSMENT OF RADIOACTIVE
CONTAMINATION IN THE BLACK SEA
Alexei Evgenievich KONTAR

1140 JSP11/08A/A10-007
GUIDELINES FOR SUSTAINABLE PROVISION OF ARSENIC FREE WATER
SUPPLY IN BANGLADESH
Md. SALEQUZZAMAN, Mostafa Md. KHALEQUZZAMAN

1200 JSP11/08A/A10-008
MONITORING OF LANDSLIDE PHENOMENA BY USE OF INTEGRATED
SURVEY SISTEM
Paolo RUTIGLIANO, Francesco SDAO, Francesco VESPE

1220 JSP11/08A/A10-009
EFFECTS OF EARTHQUAKES AND VOLCANIC ACTIVITIES ON CITIES
AROUND THE LAKE KIVU BASIN, WESTERN RIFT VALLEY OF AFRICA
Mifundu WAFULA, Kasereka MAHINDA, Mavonga TULUKA, Munyololowa
YEMBA, Hiroyuki HAMAGUCHI

JSS06 Tuesday, July 8 AM

EARTH STRUCTURE AND GEODYNAMICS (IASPEI, IAVCEI, IAG, IAGA)

Location: Site A, Room 4

Presiding Chair: U. Christensen

0830 JSS06/08A/A04-001
WHAT DETERMINES ISOTOPIC AGE? CLUES FROM NUMERICAL MODELS OF
MANTLE CONVECTION WITH EVOLVING GEOCHEMICAL HETEROGENEITY
Paul J. TACKLEY, Shunxing XIE

0850 JSS06/08A/A04-002
HOTSPOT MOTION INFERRED FROM LARGE-SCALE MANTLE FLOW
MODELS: IMPLICATIONS ON GLOBAL PLATE RECONSTRUCTIONS
Bernhard Maximilian STEINBERGER, Richard J. O'CONNELL

0910 JSS06/08A/A04-003
MANTLE DYNAMIC AND TRUE POLAR WANDER
Marianne GREFF-LEFFTZ

0930 JSS06/08A/A04-004
WHAT DRIVES PLATE TECTONICS? SLAB PULL, RIDGE PUSH OR
GEOMAGNETIC TORQUE FROM THE CMB? A NEW LOOK AT THE OLD
PLAYERS VIS-A-VIS AN EXCITING NEW ONE
Miles F. OSMASTON

0950 JSS06/08A/A04-005
IS TRUE POLAR WANDER IN THE LAST 200 MILLION YEARS A SIGNATURE
OF EPISODIC INTER-HEMISPHERIC MOTION OF PRIMARY HOTSPOTS AND
LOWER MANTLE CONVECTION?
Vincent E. COURTILLOT, Jean BESSE

1010 JSS06/08A/A04-006
MODELLING OF DYNAMICS OF DESCENDING SLAB AND TECTONIC STRESS
IN THE EARTHQUAKE-PRONE VRANCEA REGION, SE-CARPATHIANS
Alik T. ISMAIL-ZADEH, Birgit MUELLER, Friedemann WENZEL

1030 BREAK

1050 JSS06/08A/A04-007
WAVEFORM MODELING OF MANTLE ANISOTROPIC ELASTIC STRUCTURE
Mark P. PANNING, Barbara ROMANOWICZ

1110 JSS06/08A/A04-008
GLOBAL UPPER MANTLE SHEAR VELOCITY AND ANISOTROPY FROM
WAVEFORM ANALYSIS OF FUNDAMENTAL AND HIGHER MODE RAYLEIGH
WAVES
Eric DEBAYLE, Alessia MAGGI, Anne SIEMINSKI, Sylvana PILIDOU, Maggy
HEINTZ, Keith PRIESTKEY, Brian KENNETT, Jean-Jacques LEVEQUE, Michel
CARA

1130 JSS06/08A/A04-009
MAPPING 3D SEISMIC ANISOTROPY FOR UNDERSTANDING STRUCTURE
AND THICKNESS OF THE MANTLE LITHOSPHERE
Jaroslava PLOMEROVA, Vladislav BABUSKA

1150 JSS06/08A/A04-010
ANISOTROPY UNDER CONTINENTS AND OCEANS: EVIDENCE FOR
LATERAL VARIATIONS IN THE DEPTH OF THE ASTHENOSPHERE
Yuancheng GUNG, Barbara ROMANOWICZ

1210 JSS06/08A/A04-011
HIGH RESOLUTION P-WAVE TOMOGRAPHY IN A GLOBAL MANTLE MODEL
Christian WEIDLE, Sri WIDIYANTORO



G04 Tuesday, July 8 AM

GENERAL THEORY AND METHODOLOGY. MEETING OF IAG SECTION IV

Location: Site C, Room 25

Presiding Chairs: C. Jekeli, P. Holota

0840 G04/08A/C25-001
EQUIVALENT-SOURCE MODELING TO IMPROVE PRECISE GEOID
DETERMINATION
Gabriel STRYKOWSKI

0900 G04/08A/C25-002
A MINIMUM ENERGY CONDITION FOR THE INVERSE GRAVIMETRIC
PROBLEM
Olivier JAMET, Michel DIAMENT

0920 G04/08A/C25-003
SUCCESSIVE APPROXIMATIONS IN THE SOLUTION OF A WEAKLY
FORMULATED GEODETIC BOUNDARY-VALUE PROBLEM
Petr HOLOTA

0940 G04/08A/C25-004
ELLIPSOIDAL SPECTRAL PROPERTIES OF THE EARTH'S GRAVITATIONAL
POTENTIAL AND ITS FIRST AND SECOND DERIVATIVES
Karla BÖLLING, Erik W. GRAFAREND

1000 G04/08A/C25-005
ELLIPSOIDAL CORRECTIONS TO GRAVITY ANOMALIES OBTAINED FROM
SATELLITE ALTIMETRY DATA
Bernhard HECK, Kurt SEITZ

1020 BREAK

1040 SSG 4.195 REPORT

1050 G04/08A/C25-006
GRAVITY RESPONSE OVER A FRACTAL SUBSURFACE REPRESENTED BY
VORONOI TESSELLATION
Vijay P. DIMRI, Ravi Prakash. SRIVASTAVA

1120 G04/08A/C25-007
ASYMPTOTIC DISLOCATION THEORY OF A SPHERICAL EARTH FOR
CALCULATING CO-SEISMIC DISPLACEMENTS
Wenke SUN, Shuhei OKUBO

1140 G04/08A/C25-008
TOPOLOGICAL VECTOR SPACE OF HARMONIC FUNCTIONS AND THE
TRACE OPERATOR.
Fernando SANZO, Giovanna VENUTI

1200 G04/08A/C25-009
THE USE OF ENERGY BALANCE RELATIONS FOR VALIDATION OF GRAVITY
FIELD AND ORBIT DETERMINATION RESULTS
Karl Heinz ILK, Anno LOECHER



GAI.08 Tuesday, July 8 AM

CONDUCTIVITY OF CRUST AND MANTLE: RELATION TO GEODYNAMICS (SEDI)

Location: Site A, Room 14

Convener: A. Jones

Presiding Chairs: A.G. Jones, Y. Ogawa

0830 GAI.08/08A/A14-001
THE ELECTRICAL STRUCTURE OF THE CRUST AND UPPER MANTLE ALONG
PROFILE CROSS CONJUNCTION AREA BETWEEN TIBET PLATE AND NORTH
CHINA PLATE
Guoze ZHAO, Yan ZHAN, Ji TANG, Xiaobin CHEN, Qianhui DENG, Jijun WANG,
Junmeng ZHAO

0850 GAI.08/08A/A14-002
LONG PERIOD MAGNETOTELLURIC MEASUREMENTS IN NW- HIMALAYA:
IMPLICATIONS FOR MANTLE CONDUCTIVITY
Baldev Raj ARORA, Gautam RAWAT, Vipul NAGAR

0910 GAI.08/08A/A14-003
ELECTROMAGNETIC IMAGING OF THE INDIA-ASIA COLLISION ZONE
Alan G. JONES, Jessica E. SPRATT, K. Doug NELSON, Martyn J. UNSWORTH

0930 GAI.08/08A/A14-004
DEEP GEOELECTRIC MODEL OF THE TIEN SHAN LITHOSPHERE AND SOME
GEOGNAMIC IMPLICATIONS
Anatoly K. RYBIN, Vlad BATALEV, Gennady TCHELOCHKOV, Elena
BATALEVA, Iliia SAFRONOV

0950 GAI.08/08A/A14-005
MANTLE UPWELLING IN THE WEST OF KYUSHU ISLAND AND ANOMALIES
OF TEMPORAL GEOMAGNETIC VARIATIONS
Hiroaki TOH, Sawako HOMMA

1010 GAI.08/08A/A14-006
MAPPING PLATE BOUNDARIES USING MT ETHOD ALONG THE
LONGITUDINAL VALLEY, EASTERN TAIWAN
Chow-Son CHEN, Chien-Chih CHEN

1030 BREAK

1050 GAI.08/08A/A14-007
RESISTIVITY STRUCTURE OF THE WESTERN PART OF THE NORTH
ANATOLIAN FAULT ZONE BY MAGNETOTELLURICS METHOD
S.Bulent TANK, Yoshimori HONKURA, Yasuo OGAWA, Naoto OSHIMAN,
Mustafa Kemal TUNCER, Masaki MATSUSHIMA, Cengiz CELIK, Elif TOLAK

1110 GAI.08/08A/A14-008
TRANS-EUROPEAN SUTURE ZONE (TESZ) AND ITS
GEODYNAMICINTERRELATION WITH THE VRANCEA SEISMOGENIC SLAB,
ROMANIA.
Dumitru I. STANICA, Maria STANICA

1130 GAI.08/08A/A14-009
CONDUCTING LOWER CRUST BELOW EASTERN GHAT MOBILE BELT
EASTERN INDIA
Kalyan Kumar ROY, S. DEY, S. SRIVASTAVA, T. DUTTA

1150 GAI.08/08A/A14-010
LITHOSPHERIC ELECTRICAL CONDUCTIVITY STRUCTURE FROM
MAGNETOTELLURIC STUDIES IN SOUTH INDIAN SHIELD REGION
Naganjaneyulu K., Harinarayana T.

1210 GAI.08/08A/A14-011
PRECAMBRIAN INDIAN SHIELD REGION – THERMALLY UNDERESTIMATED
DUE TO FLUIDS –
Vijay K. RAO, S.N. PRASAD

GAII.05 Tuesday, July 8 AM

**DATA ASSIMILATION TECHNIQUES FOR THE IONOSPHERE-
THERMOSPHERE-MAGNETOSPHERE SYSTEM**
Location: Site A, Room 15

Co-Conveners: P.-L. Blelly, S. Maeda
Presiding Chair: R.W. Schunk

0830 GAII.05/08A/A15-001
SOLAR WIND DRIVEN RADIATION BELT RESPONSE FUNCTIONS: DATA
ASSIMILATION METHODS FOR CHARACTERIZING RADIATION BELT
DYNAMICS
E. Josh RIGLER, Daniel N. BAKER, Dimitris VASSILIADIS

0850 GAII.05/08A/A15-002
MAGNETOSPHERIC DATA ASSIMILATION
Joachim RAEDER

0920 GAII.05/08A/A15-003
IONOSPHERIC DATA ASSIMILATION IN GAIM
Ludger SCHERLIESS, Robert W. SCHUNK, Jan J. SOJKA, Donald C. THOMPSON

0950 GAII.05/08A/A15-004
NEW DATA SOURCES TO DRIVE AN ASSIMILATING MODEL FOR THE
IONOSPHERE
Robert P. MCCOY

1020 BREAK

1040 GAII.05/08A/A15-005
VALIDATION OF A GLOBAL IONOSPHERIC DATA ASSIMILATION MODEL
Brian D. WILSON, George HAJJ, Chunming WANG, Xiaoping PI, Gary ROSEN

1100 GAII.05/08A/A15-006
IONOSPHERE SOUNDING BY GPS MEASUREMENTS ON CHAMP
Norbert JAKOWSKI, Stefan HEISE, Konstantin TSYBULYA, Andreas
WEHRENPENNIG

1130 GAII.05/08A/A15-007
AN ON-LINE DATABASE FOR IONOSPHERIC THERMAL PLASMA DATA FROM
DMSP
Marc R. HAIRSTON, William R. COLEY, R.A. HEELIS

1150 GAII.05/08A/A15-008
VALIDATION OF THE IONOSPHERIC DATA ASSIMILATION THREE
DIMENSIONAL (IDA3D) ALGORITHM
Trevor W. GARNER, Gary S. BUST, Thomas L. GAUSSIRAN II

1210 GAII.05/08A/A15-009
SPLINE-BASED EMPIRICAL MODEL OF HIGH-LATITUDE IONOSPHERIC
POTENTIAL
Satoshi TAGUCHI

GAIII.05 Tuesday, July 8 AM

**WHAT ARE THE STRUCTURES IN THE MAGNETOTAIL, WHY
ARE THEY THERE, AND HOW DO THEY INFLUENCE ITS
DYNAMICS**
Location: Site A, Room 6

Presiding Chairs: L.C. Lee, S.-I. Ohtani

0830 GAIII.05/08A/A06-001
THREE-COMPONENT PSBL ION BEAMS OBSERVED IN THE DISTANT
MAGNETOTAIL
Yoshifumi SAITO, Toshifumi MUKAI, Toshio TERASAWA, Shinobu MACHIDA

0845 GAIII.05/08A/A06-002
GEOTAIL AND CLUSTER OBSERVATIONS OF FLUX ROPESIN THE
MAGNETOTAIL FROM X ~ -15 TO -200 RE
James A. SLAVIN, Eija TANSKANEN

0900 GAIII.05/08A/A06-003 Invited
CLUSTER MULTI-POINT OBSERVATIONS OF FAST FLOWS IN THE PLASMA
SHEET
Rumi NAKAMURA, Wolfgang BAUMJOHANN, Andrei RUNOV, Martin
VOLWERK, Zoltan VOEROES, Tielong L. ZHANG, Berndt KLECKER, Andre
BALOGH, Henri REME, Lynn KISTLER, Christopher MOUIKIS

0925 GAIII.05/08A/A06-004
CLUSTER OBSERVATIONS OF THE DYNAMICS OF THE TAIL CURRENT
DURING SUBSTORMS
Robert L. MCPHERRON, Daniel N. BAKER, Scott THOMPSON, Margaret G.
KIVELSON, Khrishan KHURANA, Andre BALOGH, Henri REME

0940 GAIII.05/08A/A06-005
CURRENT CARRIERS OF THE CROSS-TAIL CURRENT: GEOTAIL
OBSERVATIONS
Toshifumi MUKAI

0955 GAIII.05/08A/A06-006 Invited
CURRENT SHEET STRUCTURE AND DYNAMICS IN MAGNETOTAIL
M. HOSHINO, T. MUKAI

1020 BREAK

1040 GAIII.05/08A/A06-007
ACCELERATION AND HEATING OFIONOSPHERIC IONS IN THE
MAGNETOTAIL
Jean-Andre SAUVAUD, H. REME, P. LOUARN, G. FRUIT, L. KISTLER, G.K.
PARKS, M. ANDRE, A. BALOGH, M. DUNLOP, N. CORNILLEAU

1055 GAIII.05/08A/A06-008
PARTICLE SIMULATION OF PLASMA RESPONSE TO INDUCTION ELECTRIC
FIELD IN THE MAGNETOSPHERE
Yoshiharu OMURA, Masataka MATSUNAGA, Takayuki UMEDA, Walter J.
HEIKKILA, Hiroshi MATSUMOTO

1110 GAIII.05/08A/A06-009
CLUSTER OBSERVATIONS OF ELECTRON POPULATIONS DURING
MAGNETOTAIL RECONNECTION: 3-D STRUCTURE AND DYNAMICS.
Christopher J. OWEN, Andrew N. FAZAKERLEY, Jason P. DEWHURST, Yulia
BOGDANOVA, Malcolm W. DUNLOP, James A. SLAVIN, Jean-Michel BOSQUED,
Andre BALOGH, Henri REME

1125 GAIII.05/08A/A06-010 Invited
QUICK RECONNECTION TRIGGERING AND CROSS-SCALE COUPLING IN THE
MAGNEOTOTAIL CURRENT SHEET
Iku SHINOHARA, Masaki FUJIMOTO

1150 GAIII.05/08A/A06-011 Invited
THE NATURE OF BURSTY BULK FLOWS AND THEIR INFLUENCE ON
MAGNETOTAIL STRUCTURE AND DYNAMICS: A KEY SCIENCE TOPIC FOR
THE MAGNETOSPHERIC CONSTELLATION MISSION
Harlan E. SPENCE, Thomas E. MOORE, Larry KEPKO, Charles GOODRICH

1215 GAIII.05/08A/A06-012
INHERENTLY THREE DIMENSIONAL MAGNETIC RECONNECTION: A
MECHANISM FOR BURSTY BULK FLOWS?
Michael Anthony SHAY, James F. DRAKE, Marc SWISDAK, William DORLAND,
Barrett ROGERS

WEEK
B
TUE
AM

GAIII.06 Tuesday, July 8 AM

HOW IS THE INNER MAGNETOSPHERE DYNAMICALLY COUPLED TO OTHER REGIONS OF GEOSPACE?

Location: Site A, Room 2

Co-Conveners: I.A. Daglis, J.C. Foster, B.R. Sandel
Presiding Chair: T. Obara

0900 GAIII.06/08A/A02-001

DEPARTURES FROM COROTATION IN THE INNERMAGNETOSPHERE
Bill R. SANDEL, William T. FORRESTER, Robert A. KING

0915 GAIII.06/08A/A02-002 Invited

IMAGE EUV OBSERVATIONS OF PLASMASPHERIC EROSION: INDICATIONS OF PLASMASPHERE/RING-CURRENT/IONOSPHERE COUPLING
Jerry GOLDSTEIN, Bill R. SANDEL, Pontus CSON BRANDT, Stanislav Y. SAZYKIN

0940 GAIII.06/08A/A02-003 Invited

ULF RESONANCE, EUV REMOTE SENSING, AND IN SITU PLASMASPHERIC OBSERVATIONS
Mark B. MOLDWIN, D. BERUBE, J. WEYGAND

1005 GAIII.06/08A/A02-004 Invited

IMAGE OBSERVATIONS OF PLASMASPHERE/RING CURRENT INTERACTIONS
Dennis L. GALLAGHER, Mark L. ADRIAN, Joseph D. PEREZ, Bill R. SANDEL

1030 BREAK

1045 GAIII.06/08A/A02-005 Invited

FORMATION OF MAIN PHASE RING CURRENT AND RECOVERY PHASE RING CURRENT
Yusuke EBIHARA, Masaki EJIRI, Hans NILSSON, Ingrid SANDAHL, Manuel GRANDE, Joseph F. FENNELL, James L. ROEDER

1110 GAIII.06/08A/A02-006 Invited

ANALYSIS OF RING CURRENT CONTROL OF ELECTRIC FIELDS IN THE INNER MAGNETOSPHERE DURING THE APRIL 2002 MAGNETIC STORMS
Michael W. LIEMOHN, Janet U. KOZYRA, Aaron J. RIDLEY, Jichun ZHANG, Gang LU, Darren L. DE ZEEUW, Daniel M. OBER, Phil C. ANDERSON, Cynthia CATTELL, Jerry GOLDSTEIN, Pontus C:SON BRANDT

1135 GAIII.06/08A/A02-007 Invited

MAGNETIC FIELDS AND PLASMAS IN ACTIVE SUBSTORMS AND STORMS
Thomas E. MOORE, J.F. FENNELL, M.-C. FOK, M.B. MOLDWIN, J.A. SLAVIN, R.J. STRANGWAY

1200 GAIII.06/08A/A02-008

THE RING CURRENT AND INNER MAGNETOSPHERE DURING STEADY MAGNETOSPHERIC CONVECTION EVENTS
Calvin Robert CLAUSER, M.W. LIEMOHN, D.L. DEZEEUW, J.U. KOZYRA, J. GOLDSTEIN

1215 GAIII.06/08A/A02-009

EVOLUTION OF RING CURRENT ENERGY DENSITY DURING GEOMAGNETIC STORMS
Natalia Yu. GANUSHKINA, Yusuke EBIHARA, Tuija I. PULKKINEN, Masaki EJIRI, Ted A. FRITZ

GAIII.14-Posters Tuesday, July 8 AM

HOW DO THE MAGNETOSPHERES OF OTHER PLANETS AND THEIR SATELLITES COMPARE WITH THE EARTH'S MAGNETOSPHERE?

Location: Site D

0830-145 GAIII.14/08A/D-001 Poster

WHAT CAN SEE A MAGNETOMETER ON NOZOMI MISSION AT THE VICINITY OF PHOBOS?
Valentina G. MORDOVSKAYA, Victor N. ORAEVSKY

0830-146 GAIII.14/08A/D-002 Poster

AN ENA INSTRUMENT FOR MERCURY MAGNETOSPHERIC ORBITER OF THE BEPICOLOMBO MISSION
Yoichi KAZAMA, Stas BARABASH, Kazushi ASAMURA, Andrei FEDOROV, Peter WURZ

0830-147 GAIII.14/08A/D-003 Poster

THE MAGNETIC FIELD EXPERIMENT FOR BEPI-COLOMBO MMO
Ayako MATSUOKA, Wolfgang BAUMJOHANN, The MERMAG-M CONSORTIUM

0830-148 GAIII.14/08A/D-004 Poster

BEPICOLOMBO MISSION: SCIENTIFIC EXPECTATIONS AND CURRENT STATUS OF MERCURY MAGNETOSPHERIC ORBITER (MMO)
Hajime HAYAKAWA, Yasumasa KASABA, Hiroshi YAMAKAWA, Hiroyuki OGAWA, Toshifumi MUKAI, Masaki ADACHI, Mercury Exploration WG

0830-149 GAIII.14/08A/D-005 Poster

MERCURY MAGNETOSPHERE: EXPECTED PROGRESS BY BEPICOLOMBO/MMO
Hajime HAYAKAWA, Yasumasa KASABA, Toshifumi MUKAI, Hiroshi YAMAKAWA, Hiroyuki OGAWA, MERCURY WG

0830-150 GAIII.14/08A/D-006 Poster

DEVELOPMENT OF IITATE PLANETARY RADIO TELESCOPE (IPRT) FOR THE INVESTIGATION OF THE JOVIAN INNER MAGNETOSPHERE
Fuminori TSUCHIYA, Hiroaki MISAWA, Riichi KUDOU, Yoshizumi MIYOSHI, Takuo WATANABE, Akira MORIOKA, Tetsuro KONDO

0830-151 GAIII.14/08A/D-007 Poster

THE DUAL FREQUENCY INTERFEROMETER OBSERVATION FOR JOVIAN DECAMETRIC RADIATION
Tomoyuki NAKAJO, Takayuki ONO, Masahide IIZIMA, Hiroshi OYA

GAIV.03 Tuesday, July 8 AM

MARS: MAGNETISM AND INTERACTION WITH THE SOLAR WIND

Location: Site A, Room 16

Convenor: C. Mazelle
Co-Conveners: K. Maezawa, D.L. Mitchell
Presiding Chairs: A. Nagy, C. Mazelle

0830 GAIV.03/08A/A16-001

THE MAGNETIZED CRUST OF MARS - THE FINDINGS OF MARS GLOBAL SURVEYOR
Mario H. ACUNA

0900 GAIV.03/08A/A16-002 Invited

THE STRUCTURE OF THE MARTIAN PLASMA ENVIRONMENT: INTEGRATING MARS GLOBAL SURVEYOR AND PHOBOS-2 RESULTS
Daniel WINTERHALTER, Mario H. ACUÑA, Christian MAZELLE, David MITCHELL, Konrad SAUER

0930 GAIV.03/08A/A16-003 Invited

THE MAGNETIC PILEUP BOUNDARY: A COMMON FEATURE FOR WEAKLY MAGNETIZED BODIES?
Cesar L. BERTUCCI, Christian MAZELLE, Mario H. ACUÑA

1000 GAIV.03/08A/A16-004

THE MAGNETIC PILE-UP BOUNDARY AT MARS AND RELATED ION DYNAMICS
Konrad SAUER, Eduard DUBININ, Christian MAZELLE

1020 BREAK

1040 GAIV.03/08A/A16-005

MARTIAN SHOCK AND MAGNETIC PILE-UP BOUNDARY POSITIONS AND SHAPES REVISITED AFTER MARS GLOBAL SURVEYOR
Jean Gabriel TROTIGNON, Christian MAZELLE, Cesar BERTUCCI, Mario H. ACUNA

1100 GAIV.03/08A/A16-006 Invited

THE IONOSPHERE OF MARS
Hiroyuki SHINAGAWA

1130 GAIV.03/08A/A16-007

PROBING MARS' CRUSTAL MAGNETIC FIELDS AND IONOSPHERE WITH THE MGS ELECTRON REFLECTOMETER
David L. MITCHELL, Christina O. LEE, Sherry CHOU, Robert P. LIN, Henri REME, Paul A. CLOUTIER, Mario H. ACUNA

1150 GAIV.03/08A/A16-008 Invited

THE EFFECTS OF CRUSTAL MAGNETIC FIELDS AND THE PRESSURE BALANCE IN THE HIGH LATITUDE IONOSPHERE/ATMOSPHERE AT MARS
Tamara K. BREUS

1220 GAIV.03/08A/A16-009

MHD SIMULATION STUDY ON IMF PENETRATION INTO THE IONOSPHERE OF MARS AND VENUS
Hidekatsu JIN, Kiyoshi MAEZAWA, Toshifumi MUKAI

GAV.05 Tuesday, July 8 AM

MODELING THE EARTH'S MAGNETIC FIELD ON GLOBAL AND REGIONAL SCALES (SEDI)

Location: Site A, Room 11

Convenor: R. Holme
Co-Convenor: B. Langlais
Presiding Chairs: B. Langlais, M. Manda

0830 GAV.05/08A/A11-001 Invited

SWARM, A NEW OPPORTUNITY TO IMPROVE GLOBAL MAGNETIC FIELD MODELS
Egil FRIIS-CHRISTENSEN

0900 GAV.05/08A/A11-002

IMPROVED SEPARATION OF SOURCES USING SATELLITE AND GROUND-BASED DATA AND DAILY DIPOLE ESTIMATES

Susan MACMILLAN, Alan THOMSON, Vincent LESUR

0920 GAV.05/08A/A11-003 Invited

A COMPARISON OF MAGNETIC FIELDS FROM THE LATEST COMPREHENSIVE MODEL AND OTHER EARTH MODELS, PARTICULARLY OF CORE AND LITHOSPHERIC ORIGIN

Terence John SABAKA, Nils OLSEN

0950 GAV.05/08A/A11-004

REALISTIC ESTIMATES OF THE VARIANCES OF SPHERICAL HARMONIC GEOMAGNETIC FIELD MODELS DERIVED FROM SATELLITE DATA

Frank J. LOWES

1010 GAV.05/08A/A11-005

TOWARD IMPROVING THE MODELING OF THE MAIN GEOMAGNETIC FIELD

Crisan DEMETRESCU, Venera DOBRICA

1030 BREAK**1050 GAV.05/08A/A11-006**

MODELING OF HIGH-LATITUDE GEOMAGNETIC FIELD DISTURBANCES AT SATELLITE ALTITUDES FOR VARIOUS IMF CONDITIONS

Vladimir PAPITASHVILI, Freddy CHRISTIANSEN

1110 GAV.05/08A/A11-007

MAIN AND LITHOSPHERIC FIELD MODELS FROM CHAMP VECTOR DATA

Stefan MAUS, Monika KORTE, George BALASIS, Hermann LUEHR, Mioara MANDEA

1130 GAV.05/08A/A11-008

GLOBAL MODELS OF THE LITHOSPHERIC MAGNETIC FIELD FROM SATELLITE DATA

Kathryn A. WHALER, Michael E. PURUCKER

1150 GAV.05/08A/A11-009

MIX AND MATCH, MULTIPLE SATELLITE DERIVED, GLOBAL AND AUSTRALIAN REGIONAL MAIN FIELD MODELS

Jon TURNER, David IVERS, Denis WINCH

1210 GAV.05/08A/A11-010

TWO LONG BALLOON PROFILES ACROSS THE PACIFIC OCEAN AT AN ALTITUDE OF 30 KM

Yves COHEN, Ali LATROUS



IAHS

HS01

Tuesday, July 8 AM

**EROSION PREDICTION OF UNGAUGED BASINS (PUBS):
INTEGRATING METHODS AND TECHNIQUES (ICCE, ICRS AND
ALL IAHS COMMISSIONS)**

Location: Site C, Room 29

Conveners: D. de Boer, W. Froehlich, T. Mizuyama, A. Pietroniro
Presiding Chairs: W. Froehlich, T. Mizuyama

0950 HS01 /08A/C29-001

MATHEMATICAL MODEL FOR PREDICTING SOIL EROSION THROUGH RUN-OFF FROM UNGAUGED WATERSHEDS

Uttam C. SHARMA

1010 HS01 /08A/C29-002

A DISTRIBUTED HYDROSEDIMENTOLOGICAL MODEL FOR ESTIMATING SEDIMENT EROSION AND DEPOSITION IN YELLOW RIVER BASIN

Zongxue XU, Kuniyoshi TAKEUCHI, Hiroshi ISHIDAIRA

1030 BREAK**1050 HS01 /08A/C29-003**

APPLICATION OF A RAINFALL-SEDIMENT-RUNOFF MODEL TO THE UPPER BRANTAS RIVER BASIN, INDONESIA

Takahiro SAYAMA, Kaoru TAKARA, Yasuto TACHIKAWA

1110 HS01 /08A/C29-004

PHYSICALLY-BASED MATHEMATICAL FORMULATION FOR HILLSLOPE SCALE PREDICTION OF EROSION AT UNGAUGED BASINS

Hafzullah AKSOY, M. Levent KAVVAS, Jaeyoung YOON

1130 HS01 /08A/C29-005

CALIBRATING SEDD MODEL FOR SICILIAN UNGAUGED BASINS

Vito FERRO, Costanza DI STEFANO, Mario MINACAPILLI, Mario SANTORO

1150 HS01 /08A/C29-006

HYDROLOGICAL MODELING OF IMPERFECT GAUGED BASINS: A NEW CHALLENGE

Jun XIA

HS02

Tuesday, July 8 AM

**WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK
ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR,
ICSW, ICWQ)**

Location: Site C, Room 24

Presiding Chairs: K. Musiak

0830 HS02/08A/C24-001

IMPACTS OF GLOBAL WARMING ON SEMI-LARGE SCALE LAKES

Michio Dalai KUMAGAI, Kanako ISHIKAWA, Naoko ISHIGURO

0845 HS02/08A/C24-002

ANALYSIS OF WATER RESOURCES IN THE YELLOW RIVER BASIN USING THE DISTRIBUTED HYDROLOGICAL MODEL

Dawen YANG, Toshio KOIKE, Katumi MUSIAKE, Tetsuya KUSUDA

0900 HS02/08A/C24-003

PATTERNS OF RUNOFF CHANGE IN BULGARIA

Marin Gospodinov GENEV

0915 HS02/08A/C24-004

LONG TERM VARIATIONS IN RUNOFF AND CLIMATE IN SWEDEN

Göran Johannes LINDSTRÖM, Sten BERGSTRÖM

0930 HS02/08A/C24-005

THE IMPACTS OF HUMAN ACTIVITIES ON THE HYDROLOGICAL PROCESSES IN THE ARID ZONES OF NORTHWEST CHINA IN RECENT 50 YEARS

Genxu WANG, Guodong CHENG, Mingyuan DU, Yongping SHEN

0945 HS02/08A/C24-006

VARIATION FEATURES OF THE CLIMATE AND GLACIERS IN CHINA'S MONSOONAL TEMPERATE-GLACIER REGION SINCE THE LITTLE ICE AGE

Yuan Qing HE, Zhonglin ZHANG, Tuo CHEN, Tandong YAO, Hongxi PANG

1000 HS02/08A/C24-007

PREDICTION OF RIVER RUNOFF BY THE THE NORTH ATLANTIC OSCILLATION INDEX

Joanna K. POCIASK-KARTECZKA, ZENON NIECKARZ, Danuta LIMANOWKA

1015 BREAK**1045 HS02/08A/C24-008**

UTILISATION COUPLEE DE MODELES HYDROLOGIQUES DE BILANS ET DE SIG POUR EVALUER LES RESSOURCES EN EAU MOBILISABLES ET LEUR EVOLUTION SPATIO-TEMPORELLE. APPLICATION A L'AFRIQUE DE L'OUEST

Jean-Emmanuel PATUREL, Eric SERVAT, Gil MAHE, Alain DEZETTER, Mahaman OUEDRAOGO

1100 HS02/08A/C24-009

GLOBAL WATER RESOURCES ASSESSMENT UNDER CLIMATIC CHANGE USING TRIP

Taikan OKI, Yasushi AGATA, Shinjiro KANAE, Katumi MUSIAKE, Takao SARUHASHI

1115 HS02/08A/C24-010

FORECASTING RUNOFF WITH COMBINED MODELS OF ATMOSPHERIC BEHAVIOUR AND RIVER BASIN RESPONSE: A CASE STUDY FROM SOUTHERN BRAZIL

CARLOS E.M. TUCCI, Walter COLLISCHONN, Pedro L. DIAS, Robin T. CLARKE

1130 HS02/08A/C24-011

INVESTIGATION OF FEEDBACK MECHANISMS BETWEEN SOIL-MOISTURE, LAND USE AND PRECIPITATION IN WEST AFRICA

Harald G. KUNSTMANN, Gerlinde JUNG

1145 HS02/08A/C24-012

THE EFFECT OF DOWNSCALING TECHNIQUES ON WATER RESOURCE SCENARIOS FOR CLIMATE CHANGE

Johan ANDRÉASSON, Sten BERGSTRÖM, Bengt CARLSSON, L. Phil GRAHAM, Göran LINDSTRÖM

1200 HS02/08A/C24-013

GENERATION OF RAINFALL SCENARIOS USING DAILY PATTERNS OF CHANGE FROM GENERAL CIRCULATION MODELS

Timothy Ives HARROLD

1215 DISCUSSION**HS03**

Tuesday, July 8 AM

**WEATHER RADAR INFORMATION AND DISTRIBUTED
HYDROLOGICAL MODELING (ICSW)**

Location: Site C, Room 26

Presiding Chair: K.P. Georgakakos

**ASSESSMENT OF PERFORMANCE IN DISTRIBUTED
HYDROLOGICAL MODELING**

0830	HS03/08A/C26-001	Invited
DISTRIBUTED HYDROLOGIC MODELING: WHAT ACCURACY IS ACHIEVABLE? Baxter E. VIEUX , Fekadu G. MOREDA		
0900	HS03/08A/C26-002	
MODEL BEHAVIOR OF DISTRIBUTED HYDROLOGICAL MODELING WITH DIFFERENT FORCING DATA RESOLUTIONS Roshan K. SHRESTHA, Yasuto TACHIKAWA, Kaoru TAKARA		
0915	HS03/08A/C26-003	
INVESTIGATING THE EFFECT OF CATCHMENT CHARACTERISTICS ON THE RESPONSE TIME SCALE USING DISTRIBUTED MODEL AND WEATHER RADAR INFORMATION Efrat MORIN, Konstantine P. GEORGAKAKOS, Uri SHAMIR, Rami GARTI, Yehouda ENZEL		
0930	HS03/08A/C26-004	
EFFECT OF SPATIAL AND TEMPORAL RESOLUTION OF PRECIPITATION DATA ON ACCURACY OF THE LONG-TERM RUNOFF SIMULATION Hiroshi ISHIDAIRA, Kuniyoshi TAKEUCHI, Zongxue XU, Tianqi AO, Jun MAGOME, Makoto KUDO		
0945	HS03/08A/C26-005	
EFFECT OF PRECIPITATION SPATIAL DISTRIBUTION ON THE HYDROLOGICAL RESPONSE IN THE UPPER TONE RIVER OF JAPAN Dawen YANG, Toshio KOIKE, Hiro TANISAWA		
1000	HS03/08A/C26-006	
GRID-BASED DAM INFLOW PREDICTION ON A LARGE RIVER BASIN USING THIESSEN POLYGON AND SPATIALLY DISTRIBUTED RAINFALL DATA Seong-Joon KIM, Hyung-Joong KWON, In-Kyun JUNG, Geun-Ae PARK		
1015	BREAK	
1030	HS03/08A/C26-007	
APPLICATION OF RADAR-MEASURED RAIN DATA IN HYDROLOGICAL PROCESSES MODELING DURING THE IOP OF HUBEX Liliang REN, Chunhong LI, Meirong WANG		
1045	HS03/08A/C26-008	
APPLICATION OF MODELS WITH DIFFERENT TYPES OF MODELING METHODOLOGIES FOR RIVER FLOW FORECASTING Hapu Arachchige Prasantha HAPUARACHCHI, Li ZHIJIA, F. A. WOLFGANG		
1100	HS03/08A/C26-009	
EFFECTS OF SUB-BASIN SCALE ON RUNOFF SIMULATION IN DISTRIBUTED HYDROLOGICAL MODEL: BTOPMC Tianqi AO, Junich YOSHITANI, Kuniyoshi TAKEUCHI, Kazuhiko FUKAMI, Tadashi MATSUURA, Hiroshi ISHIDAIRA		
1115	HS03/08A/C26-010	
A GRID-CELL BASED DISTRIBUTED FLOOD RUNOFF MODEL AND ITS PERFORMANCE Toshiharu KOJIMA, Kaoru TAKARA		
1130	HS03/08A/C26-011	
EVALUATING LAND USE CHANGE EFFECTS ON FLOOD PEAK USING DISTRIBUTED RAINFALL RUNOFF MODEL IN YASU RIVER, JAPAN Tumaini Anderson KIMARO, Yasuto TACHIKAWA, Kaoru TAKARA		

HS04	Tuesday, July 8 AM
METHODOLOGIES FOR RISK ASSESSMENT OF WASTE WATER RE-USE ON GROUNDWATER QUALITY (ICWQ)	
Location: Site C, Room 30	

Presiding Chairs: Y. Matsuno, S. Toze

MODEL DEVELOPMENT

0905	HS04/08A/C30-001	
THE NUTRIENT EXPORT RISK MATRIX (THE NERM) FOR STRATEGIC APPLICATION OF BIOSOLIDS TO AGRICULTURAL LAND Louise HEATHWAITE, Sean BURKE, Paul QUINN, David LERNER, Paul WHITEHEAD, Adrian SAUL, Neil PREEDY		
0935	HS04/08A/C30-002	
VARIATION OF CHEMICAL SPECIES INFILTRATING TREATED SEWAGE WATER USING THE MULTI-COMPONENT SOLUTE TRANSPORT MODEL Gingging De Castro GUERRA, Kenji JINNO, Yoshinari HIROSHIRO		
1005	HS04/08A/C30-003	
SATURATED MODELING OF EFFLUENT RECHARGE AND ITS IMPACT ON GROUNDWATER QUALITY Shutang ZHU, Gang ZHAO, Yueqiang LIU, Keke PENG, Xuan ZHAO, Xiaojing YANG, Yuanle MA, Yiping GAN		

WASTEWATER RE-USE POLICY

1100	HS04/08A/C30-004	
ASSESSMENT OF WASTE WATER GENERATION, MANAGEMENT PATTERN AND ITS RE-USE POTENTIAL IN URBAN INDIA R. B. SINGH		
1130	HS04/08A/C30-005	
ASPECTS OF GROUND WATER ENRICHMENT BY WASTEWATER REUSE IN THE PALESTINIAN TERRITORIES Rebby Ata EL SHEIKH, Sami Mahmoud HAMDAN, Ashraf Sobhy ABO SHAMMALA		
1200	HS04/08A/C30-006	
GROUNDWATER QUALITY DETERIORATION - A MAJOR THREAT TO WATER RESOURCES Hillel RUBIN		
1230	HS04/08A/C30-007	
CONSERVATION OF WATER RESOURCES IN BERLIN (GERMANY) THROUGH DIFFERENT RE-USE OF WATER Birgit FRITZ, Stephanie RINCK-PFEIFFER, Thomas HEBERER, Asaf PEKDEGER		

HW06	Tuesday, July 8 AM
ISOTOPE TRACERS IN WATER CYCLE MODELS (IAHS/ICT, IAEA)	
Location: Site C, Room 31	

Presiding Chairs: J.J. Gibson, J. McDonnell

1040	HW06/08A/C31-001	
CHANGE OF THE ISOTOPIC PARAMETERS OF RIVER WATER ALONG THE RIVER COURSE:- TO WHAT EXTENT CAN ONE USE IT AS A MEASURE OF THE WATER BALANCE IN THE RIVER BASIN? Joel Robert GAT		
1100	HW06/08A/C31-002	
REGIONAL ATMOSPHERIC WATER ISOTOPE MODELLING Kristof STURM, Georg HOFFMANN, Bärbel LANGMANN, Hans GRAF		
1120	HW06/08A/C31-003	
APPLICATION OF STABLE ISOTOPES IN LARGE SCALE HYDROLOGICAL STUDIES Balazs M. FEKETE, Pradeep AGGARWAL, John J. GIBSON, Charles J. VOROSMARTY		
1140	HW06/08A/C31-004	
SIMULATING SHORT-TERM 18O VARIABILITY WITH A RAYLEIGH-TYPE ISOTOPE CIRCULATION MODEL Kei YOSHIMURA, Taikan OKI, Nobuhito OHTE, Shinjiro KANAE		

HW08	Tuesday, July 8 AM
PARAMETER ESTIMATION TECHNIQUES (IAHS/WMO WORKING GROUP ON GEWEX WITH THE SUPPORT OF ICSW AND ICASVR)	
Location: Site C, Room 28	

Presiding Chairs: G. Leavesley, A. Young

PARAMETER ESTIMATION AND MODEL DIAGNOSTIC TECHNIQUES

0830	HW08/08A/C28-001	Invited
IDENTIFICATION AND EVALUATION OF HYDROLOGICAL MODELS Thorsten WAGENER, Hoshin V. GUPTA, Jasper A. VRUGT, Terri S. HOGUE, Howard S. WHEATER, Soroosh SOROOSHIAN		
0900	HW08/08A/C28-002	
A TOOL FOR DIAGNOSING THE SIGNALS IN HYDROLOGIC TIME SERIES John SCHAAKE, Qingyun DUAN		
0920	HW08/08A/C28-003	
SIMULATION OF HYDROLOGICAL PROCESSES BY THE LAND SURFACE MODEL SWAP USING AN APRIORI ESTIMATED MODEL'S PARAMETERS FOR BOREAL CATCHMENTS Yeugeniy M. GUSEV, Olga N. NASONOVA		
0940	HW08/08A/C28-004	
ON SEMI-DISTRIBUTED RAINFALL-RUNOFF MODELLING: 'SATURATION PATH' PERSPECTIVE ON TOPMODEL AND VIC Dmitri KAVETSKI, George KUCZERA, Stewart W. FRANKS		
1000	HW08/08A/C28-005	
ON THE PARAMETERIZATION OF DISTRIBUTED MODELS Fekadu G. MOREDA, Ziya ZHANG, Victor KOREN, Seann REED, Michael SMITH		
1020	BREAK	
1040	HW08/08A/C28-006	
RESEARCH OF THE HYDROLOGICAL MODELING IN NORTHERN REGION Xieyao MA, Yoshihiro FUKUSHIMA, Tetsuzo YASUNARI		

- 1100

HW08/08A/C28-007

ESTIMATION OF HYDROLOGIC PARAMETERS RELATED TO SOIL AND VEGETATION USING REMOTELY-SENSED DATA AND GIS - AN EXPERIENCE AT MOUNTAINOUS WATERSHEDS IN JAPAN

Kazuhiko FUKAMI, Kazuhiko FUKAMI, Yoko HIROSE, Takuya OKADA, ZhiQiang CHEN, M. Levent KAVVAS, Junichi YOSHITANI
- 1120

HW08/08A/C28-008

CLIMATE CHANGES IMPACT ON THE WATER RESOURCES

Cvetanka POPOVSKA
- 1140

HW08/08A/C28-009

A METHOD FOR PARAMETER ESTIMATION IN URBANISED CATCHMENTS

Dirk MUSCHALLA, Manfred OSTROWSKI
- 1200

HW08/08A/C28-010

DETERMINATION OF NON PHYSICAL VAN GENUCHTEN PARAMETERS IN HETEROGENEOUS SOILS

Joseph POLLACCO



MI03

Tuesday, July 8 AM

CHEMISTRY-CLIMATE INTERACTIONS (COVERS OZONE INTERACTIONS) (ICACGP, IOC, ICCI)

Location: Site B, Room 18

- 0830

MI03/08A/B18-001

ATMOSPHERIC CHEMISTRY DATA AT THE NASA GODDARD EARTH SCIENCES DAAC

James E. JOHNSON, Suraiya P. AHMAD, Steven J. KEMPLER
- 0850

MI03/08A/B18-002

SAGE III FIRST YEAR OF MEASUREMENTS: OVERVIEW OF THE MISSION AND EARLY RESULTS

William P. CHU, Chip R. TREPTE, Joe M. ZAWODNY, Larry W. THOMASON, Mike C. PITTS, Mike S. CISEWSKI, Didier F. RAULT, Ghassan TAHA, J.R. MOORE, Allan D. RISLEY
- 0910

MI03/08A/B18-003

POLAR CHEMISTRY BY THE 4D-VAR CHEMICAL DATA ASSIMILATION OF MIPAS OBSERVATIONS

Frank W.R. DAERDEN, Dominique FONTEYN, Quentin ERRERA, Simon CHABRILLAT, Stijn BONJEAN, Niels LARSEN
- 0930

MI03/08A/B18-004

CLIMATE IMPLICATIONS OF MOVEMENT OF THE UPPER TROPOSPHERE FRONTS DEDUCED FROM TOTAL OZONE DATA

Robert D. HUDSON, Marcus F. ANDRADE, Melanie B. FOLLETTE, Alexander D. FROLOV
- 0950

DISCUSSION
- 1000

BREAK
- 1030

MI03/08A/B18-005

NOX PRODUCTION BY LIGHTNING OVER THE INDIAN REGION

Suvama Sushil KANDALGAONKAR, Md. Iqbal Rasul TINMAKER, Asha Shashi NATH
- 1050

MI03/08A/B18-006

LIGHTNING AND OTHER INFLUENCES ON TROPICAL TROPOSPHERIC OZONE:EMPIRICAL STUDIES OF COVARIATION

Robert B. CHATFIELD, Hong GUAN, Anne M. THOMPSON, Robert D. HUDSON, Jacquelyne C. WITTE
- 1110

MI03/08A/B18-007

A SIGNIFICANT INCREASE OF CARBON MONOXIDE TROPOSPHERIC CONCENTRATION IN THE NORTHERN HEMISPHERE DETECTED BY TOTAL COLUMN AND SURFACE LAYER MEASUREMENTS IN 1998

Thomas BLUMENSTOCK, Evgeny GRECHKO, Yutaka KONDO, Justus NOTHOLT, Paul NOVELLI, Curtis RINSLAND, Ralf SUSSMANN, Hiroshi TANIMOTO, Leonid YURGANOV, Rodolphe ZANDER
- 1130

MI03/08A/B18-008

SEASONAL PERSISTENCE OF MIDLATITUDE TOTAL OZONE ANOMALIES

Vitali FIOLETOV, Theodore SHEPHERD
- 1150

MI03/08A/B18-009

THE DETECTION OF THE POLAR ORIGIN AIR AT WAKKANAI, JAPAN, SECOND REPORT. THE OBSERVATION OF VERTICAL OZONE PROFILE AT WAKKANAI, JAPAN FROM FEBRUARY 15 TO 24, 2001

Shigeru CHUBACHI, Kouji MIYAGAWA

MI06-Posters

Tuesday, July 8 AM

THE DYNAMICS OF MID-LATITUDE AND POLAR WEATHER SYSTEMS OVER THE OPEN OCEAN (ICPM, ICDM)

Location: Site D

- 0830-152

MI06/08A/D-001

Poster

CHANGES IN PROPAGATION PATH OF UPPER-LEVEL SYNOPTIC EDDIES AND INTERANNUAL VARIATIONS IN WINTERTIME STORM TRACK ACTIVITY OVER THE NORTH PACIFIC

Takeaki SAMPE, Hisashi NAKAMURA
- 0830-153

MI06/08A/D-002

Poster

AN EXCITEMENT OF THE GRAVITATIONAL AND ACOUSTIC WAVES IN THE EARTH ATMOSPHERE CAUSED BY HORIZONTAK AND VERTICAL SHEAR FLOW

Tamara A. PATARAIA

MC02

Tuesday, July 8 AM

TYPHOONS IN ASIA: THEIR UNIQUE FEATURES (ICDM)

Location: Site B, Room 20

TYPHOON FORMATION

- 0900

MC02/08A/B20-001

TROPICAL CYCLONE ENERGY DISPERSION AND CYCLOGENESIS IN THE WESTERN NORTH PACIFIC:OBSERVATIONS AND SIMULATIONS

Tim LI, Yongti ZHU, Yuqing WANG, Bing FU, Xuyang GE, Bin WANG
- 0920

MC02/08A/B20-002

A STUDY OF TROPICAL CYCLONE FORMATION IN THE WESTERN NORTH PACIFIC

Cheng-shang LEE
- 0940

MC02/08A/B20-003

TYPHOON VAMEI: AN EQUATORIAL TROPICAL CYCLONE FORMATION

Chih-Pei CHANG, Ching-Hwang LIU, Hung-Chi KUO
- 1000

MC02/08A/B20-004

RECENT OBSERVATIONAL STUDIES ON TROPICAL CYCLONE FORMATION IN THE WESTERN NORTH PACIFIC

Kevin K.W. CHEUNG, Russell L. ELSBERRY
- 1020

BREAK
- 1100

MC02/08A/B20-005

MESOSCALE ANALYSYS OF FORMATION PROCESS OF TYPHOON OVER THE WESTERN NORTH PACIFIC

Kazumasa MORI
- 1120

MC02/08A/B20-006

TYPHOON GENESIS IN GLOBAL HIGH-RESOLUTION SIMULATIONS ON THE EARTH SIMULATOR

Mayumi K. YOSHIOKA, Takeshi ENOMOTO, Yoshio KURIHARA
- 1140

MC02/08A/B20-007

RECENT MESOSCALE MODELING STUDIES ON TROPICAL CYCLONE FORMATION IN THE WESTERN NORTH PACIFIC

Kevin K.W. CHEUNG, Russell L. ELSBERRY
- 1200

MC02/08A/B20-008

NUMERICAL STUDY OF THE EVOLUTION OF A BAY OF BENGAL TROPICAL CYCLONE AND THE IMPACT ASSESSMENT

Bhaskar Rao Venkata DODLA

MC05

Tuesday, July 8 AM

MIDDLE ATMOSPHERE SCIENCE (ICMA)

Location: Site A, Room 9

- 0830

MC05/08A/A09-001

Invited

MODEL THERMAL RESPONSE TO MINOR ENERGY SOURCES AND SINKS

Victor I. FOMICHEV
- 0900

MC05/08A/A09-002

Invited

CHANGES IN TROPICAL UPWELLING: A POSSIBLE CAUSE FOR CHANGES IN STRATOSPHERIC WATER VAPOR

Karen H. ROSENLOF
- 0930

MC05/08A/A09-003

Invited

COUPLED MODELING OF THE DYNAMICS AND CHEMISTRY OF THE MIDDLE ATMOSPHERE

Byron A. BOVILLE, R.R. GARCIA, D. KINNISON, D.R. MARSH, R.G. ROBLE, F. SASSI

WEEK

B

TUE

AM

1000	MC05/08A/A09-004	
INVESTIGATION OF CHEMICAL AND DYNAMICAL COUPLINGS USING THE WHOLE ATMOSPHERE COMMUNITY CLIMATE MODEL (WACCM)		
Douglas Edward KINNISON, Rolando G. GARCIA, Byron A. BOVILLE, Fabrizio SASSI, Dan R. MARSH, Ray ROBLE		
1020	BREAK	
1050	MC05/08A/A09-005	Invited
MIXING AND DEHYDRATION NEAR THE TROPICAL TROPOPAUSE: INFERENCES FROM RECENT WORK		
Steven C. SHERWOOD		
1120	MC05/08A/A09-006	Invited
A STRATOSPHERIC SPRINKLER OVER THE MARITIME CONTINENT -AN APPROACH BY TRAJECTORY CALCULATION		
Koji YAMAZAKI, Hiroaki HATSUSHIKA		
1150	MC05/08A/A09-007	Invited
THE INTERFACE BETWEEN THE TROPICAL TROPOSPHERE AND STRATOSPHERE		
Ian A. FOLKINS		

MC12	Tuesday, July 8 AM
THE CLIMATE OF THE HOLOCENE (ICCI)	
Location: Site B, Room 19	

Presiding Chair: V. Brovkin

0930	MC12/08A/B19-001	Invited
THE CLIMATE OF THE HOLOCENE: A GLACIOLOGICAL PERSPECTIVE		
Georg Paul HOFFMANN, Martin WERNER, Gavin SCHMIDT, Jean JOUZEL		
1000	MC12/08A/B19-002	
HOLOCENE CLIMATE VARIABILITY RECORDED IN WATER STABLE ISOTOPES FROM ANTARCTIC AND GREENLAND ICE CORES		
Valérie MASSON-DELMOTTE, S.J. JOHNSON, J. JOUZEL, V.I. MORGAN, B. STENNI, J.W.C. WHITE, F. VIMEUX		
1020	MC12/08A/B19-003	
ARGON AND NITROGEN ISOTOPES OF TRAPPED AIR IN GREENLAND ICE CORES AS A PALEOTHERMOMETER: APPLICATION TO ABRUPT CLIMATE CHANGE AT ~8200 YEARS BP		
Takuro KOBASHI, Alexi M. GRACHEV, Jeffrey P. SEVERINGHAUS		
1035	BREAK	
1055	MC12/08A/B19-004	
CHANGES IN THE SEASONAL CYCLE- IMPLICATIONS FOR PALEOCLIMATOLOGY		
Philip D. JONES, Keith R. BRIFFA, Timothy J. OSBORN		
1115	MC12/08A/B19-005	
QUANTIFYING SVALBARD CLIMATE VARIABILITY SINCE 1100 THE PRESENT, LITTLE ICE AGE AND MEDIEVAL WARM PERIOD		
John C. MOORE		
1130	MC12/08A/B19-006	
A NEW CALIBRATION OF THE 200-YEAR TEMPERATURE SERIES FROM ARMAGH OBSERVATORY, NORTHERN IRELAND		
Christopher John BUTLER, Chloe MORRELL		
1145	MC12/08A/B19-007	
A NEW SOURCE OF PROXY DATA FOR DAILY AND MONTHLY CLIMATIC RECONSTRUCTIONS		
Dennis WHEELER, Jose Manuel Suarez DOMINGUEZ		
1200	MC12/08A/B19-008	
CLIWOC: A DATABASE FOR THE WORLD'S OCEANS 1750-1850: OVERVIEW AND PRELIMINARY RESULTS		
Ricardo GARCIA-HERRERA, Dennis WHEELER, Gunther KONNEN, Maria PRIETO, Philip D. JONES		



SS03-Posters	Tuesday, July 8 AM
TECTONOPHYSICS AND CRUSTAL STRUCTURE	
Location: Site D	

Presiding Chairs: R. Clowes, A. Gorbato, S. Beck, W.-Y. Kim

0830-160	SS03/08A/D-001	Poster
P-P REFLECTIVITY MAPPING OF THE PLATE BOUNDARY IN THE JAPAN TRENCH SUBDUCTION ZONE		
Gou FUJIE, Junzo KASAHARA, Ryota HINO, Masanao SHINOHARA, Kiyoshi SUEYHIRO		

0830-161	SS03/08A/D-002	Poster
LOW INTENSITY CHARACTERISTIC OF PLATE-BOUNDARY S-S REFLECTIONS WITHIN A REGION OF INTENSE P-P REFLECTIONS AND LOW SEISMICITY ALONG THE JAPAN TRENCH SUBDUCTION ZONE		
Kimihiro MOCHIZUKI, Junzo KASAHARA, Mikako NAKAMURA, Ryota HINO, Minoru NISHINO, Tomoaki YAMADA, Asako KUWANO, Toshinori SATO, Yasuyuki NAKAMURA, Peyman Poor MOGHADDAM, Toshihiko KANAZAWA		

0830-162	SS03/08A/D-003	Poster
SPATIAL RELATION BETWEEN INTERPLATE SEISMIC ACTIVITY AND THE SEISMIC REFLECTOR BENEATH THE EAST OFF BOSO PENINSULA INDICATED BY P-S CONVERTED WAVES		
Hisanori KIMURA, Keiji KASAHARA		

0830-163	SS03/08A/D-004	Poster
DEEP SEISMIC PROFILING OF METROPOLITAN AREAS IN JAPAN FOR STRONG GROUND MOTION EVALUATION: PRELIMINARY RESULTS OF BOSO 2002 AND SAGAMI 2003		
Hiroshi SATO, Naoshi HIRATA, Tanio ITO, Takaya IWASAKI, Kazuki KOKETSU, Keiji KASAHARA, Kiyoshi ITO, Takeshi IKAWA, David OKAYA, Steven HARDER, Kate MILLER		

0830-164	SS03/08A/D-005	Poster
OCEAN BOTTOM SEISMOGRAPHIC OBSERVATION IN THE SOURCE REGION OF THE 1952 OFF TOKACHI EARTHQUAKE (M8.2)		
Tetsuo TAKANAMI, Yoshio MURAI, Ryou HONDA, Yuichi NISHIMURA, Kei KATSUMATA, Hideki SHIMAMURA, Seizo HASEGAWA, Hisanaga UKI		

0830-165	SS03/08A/D-006	Poster
HOLOCENE SLIP RATE OF THE SUBDUCTION ZONE MEGA-THRUSTS ALONG THE SAGAMI TROUGH, CENTRAL JAPAN, ANALYZING THE HEIGHT DISTRIBUTION AND AGES OF EMERGED SHORELINE INDICATORS		
Masanobu SHISHIKURA, Shinji TODA		

0830-166	SS03/08A/D-007	Poster
HIGH INTRA-SLAB SEISMIC ACTIVITY AND HORIZONTAL SLAB TEARING IN SOUTHWESTERN KURIL TRENCH		
Hiroaki TAKAHASHI, Kenji HIRATA, Isao HASHIMOTO, Masayoshi ICHIYANAGI		

0830-167	SS03/08A/D-008	Poster
THREE DIMENSIONAL SEISMIC STRUCTURE BENEATH THE SOUTHERNMOST PART OF THE HIDAKA COLLISION ZONE, HOKKAIDO, JAPAN		
Noriko TSUMURA, Shinsuke KIKUCHI, Katsuko SUZUKI, Takuro KAZUKA, Tanio ITO, Takeshi KOZAWA, Takeshi IKAWA		

0830-168	SS03/08A/D-009	Poster
CYCLIC RIDGE SUBDUCTION AT AN INTER-SEISMIC LOCKED ZONE IN THE EASTERN NANKAI TROUGH DEDUCED FROM ONSHORE - OFFSHORE WIDE-ANGLE SEISMIC SURVEY		
Shuichi KODAIRA, Ayako NAKANISHI, Jin-Oh PARK, Aki ITO, Tetsuro TSURU, Yoshiyuki KANEDA, Takashi IIDAKA, Eiji KURASHIMO, Hiroshi SATO, Takaya IWASAKI		

0830-169	SS03/08A/D-010	Poster
MICRO-SEISMICITY AROUND THE RUPTURE AREA OF THE 1944 TONANKAI EARTHQUAKE REVEALED BY OCEAN BOTTOM SEISMOGRAPH OBSERVATION		
Koichiro OBANA, Shuichi KODAIRA, Yoshiyuki KANEDA		

0830-170	SS03/08A/D-011	Poster
INTERPLATE EARTHQUAKE GENERATION IN THE NE-JAPAN AND THE IZU-BONIN REGIONS: WATER RELATED MINERAL PHYSICS		
Junzo KASAHARA, Gou FUJIE, Kimihiro MOCHIZUKI, Mikako NAKAMURA, Aya KAMIMURA, Peyman Poor MOGHADDAM, Ryota HINO		

0830-171	SS03/08A/D-012	Poster
INDUCED SEISMICITY STUDIES AT GEHEYAN RESERVOIR		
Yun sheng YAO, Shi Jun GO, Zhong HUANG		

0830-172	SS03/08A/D-013	Poster
POSSIBILITY OF THE SERPENTINIZED MATERIAL AT THE IZU-BONIN SUBDUCTION ZONE AROUND 31°N BY COMPARISON BETWEEN OBSERVATION AND FDM-SIMULATION		
Aya KAMIMURA, Junzo KASAHARA		

0830-173	SS03/08A/D-014	Poster
CONFIGURATION OF SUBDUCTING PHILIPPINE SEA PLATE BENEATH SOUTHWEST JAPAN REVEALED FROM THE RECEIVER FUNCTION ANALYSIS		
Katsuhiko SHIOMI, Kazushige OBARA, Haruo SATO		

0830-174	SS03/08A/D-015	Poster
GEOMETRY OF THE UPPER SURFACE OF THE SEISMIC PHILIPPINE SEA SLAB SUBDUCTED BENEATH SOUTHWEST JAPAN		
Takayuki MIYOSHI, Katsuhiko ISHIBASHI		

0830-175	SS03/08A/D-016	Poster
THREE-DIMENSIONAL VELOCITY STRUCTURE OF THE PINGTUNG AREA		
Li-Chuin HU, Cheng-Hong LIN, Heng-Yuan YEN, Chau-Huei CHEN		

0830-176 SS03/08A/D-017 Poster
SEISMICITY IN HYUGA-NADA BY TEMPORARY SEISMOLOGICAL OBSERVATION BOTH OF SEA AND LAND AREA
Kenji UEHIRA, Hiroshi SHIMIZU, Norimichi MATSUWO, Minoru NISHINO, Ryota HINO, Kimihiro MOCHIZUKI, Kodo UMAKOSHI, Hiroshi YAKIWARA, Hiroki MIYAMACHI

0830-177 SS03/08A/D-018 Poster
INFLUENCE OF SEISMIC CYCLES IN KURILE-KAMCHATKA AND JAPAN SUBDUCTION ZONES ON CRUSTAL STRESS CHANGES AND SEISMIC ACTIVITY IN THE BAIKAL LAKE REGION (SIBERIA)
Pyotr G. DJADKOV

0830-178 SS03/08A/D-019 Poster
THE 1971 SOUTH YAKUT EVENT AND ITS EFFECTS
Imaev Valeriy S., Ludmila P. IMAEVA, Boris M. KOZMIN

0830-179 SS03/08A/D-020 Poster
TOMOGRAPHIC IMAGING OF VP AND VP/VS IN EASTERN TAWIAN: CONSTRAINS ON EARTHQUAKE NUCLEATION?
Win-Bin CHENG

0830-180 SS03/08A/D-021 Poster
AFTERSHOCKS AND SEISMOTECTONIC IMPLICATIONS OF THE SEPTEMBER 13, 2002 EARTHQUAKE (MW 6.5) IN THE ANDAMAN SEA BASIN
Jnana Ranjan KAYAL, S.G. GAONKAR, Gautam1Kumar CHAKRABOR, Om Prakash SINGH

0830-181 SS03/08A/D-022 Poster
THE MOST RECENT PERIOD OF SEISMIC ACTIVITY IN DINAVAR SEGMENT OF MAIN RECENT FAULT,ZAGROS MOUNTAINS OF WESTERN IRAN.
Noorbakhsh MIRZAEI

0830-182 SS03/08A/D-023 Poster
SEISMOLOGICAL CONSTRAINTS ON THE STRUCTURE AND COMPOSITION OF THE WESTERN DECCAN VOLCANIC PROVINCE FROM CONVERTED PHASES
Mohan GOLLAPALLY, Ravi Kumar MANGALAMPALLY

0830-183 SS03/08A/D-024 Poster
THE TOPOGRAPHY OF THE MOHO-DISCONTINUITY AND TECTONIC PROCESSES IN THE AREA OF THE REPUBLIC OF MACEDONIA
Todor B. DELIPETROV, Deljo P. KARAKASEV

0830-184 SS03/08A/D-025 Poster
MOHO DEPTH VARIATION IN SOUTH IBERIAN PENINSULA
Inmaculada SERRANO, Jose Benito MARTIN, Jose MORALES, Federico TORCAL

0830-185 SS03/08A/D-026 Poster
SIGNIFICANT EARTHQUAKES IN THE UK OVER THE PAST 25 YEARS
Lars OTTEMOLLER, Alice WALKER, Brian BAPTIE

0830-186 SS03/08A/D-027 Poster
THE STRESS FIELDS DUE TO RECENT SEISMIC EVENTS IN THE CENTRAL APENNINES, ITALY
Michele DRAGONI, Antonello PIOMBO, Stefano SANTINI, Andrea TALLARICO

0830-187 SS03/08A/D-028 Poster
BOHEMIAN MASSIF ANISOTROPY AND HETEROGENEITY: - BOHEMA EXPERIMENT
Michael KORN, BOHEMA WORKING GROUP

0830-188 SS03/08A/D-029 Poster
WAVEFORM MODELING TO ESTIMATE THE SEISMIC WAVE ATTENUATION IN THE CRUST, IN THE VRANCEA (ROMANIA) SEISMIC AREA
Luminita Angela ARDELEANU

0830-189 SS03/08A/D-030 Poster
SEISMIC AMPLITUDE VARIATIONS DUE TO SITE AND AZIMUTHAL EFFECTS IN THE LOS ANGELES BASIN
Allen LeRoy HUSKER, Monica KOHLER, Shirley BAHER, Paul DAVIS

0830-190 SS03/08A/D-031 Poster
ASPERITY DISTRIBUTION OF THE 1964 GREAT ALASKA EARTHQUAKE AND ITS RELATIONTO SUBSEQUENT SEISMICITY IN THE REGION
Stefano SANTINI, Michele DRAGONI, Giorgio SPADA

0830-191 SS03/08A/D-032 Poster
SEISMOGENIC ZONE STRUCTURE ALONG THE MIDDLE AMERICA TRENCH: RESULTS FROMTHE COSTA RICA SEISMOGENIC ZONE EXPERIMENT
Heather R. DESHON, Susan Y. SCHWARTZ, Susan L. BILEK, Andrew V. NEWMAN, LeRoy M. DORMAN, J. Marino PROTTI

0830-192 SS03/08A/D-033 Poster
SEISMOTECTONIC AND SEISMIC ANOMALIES IN NORTH WESTERN OF SOUTH AMERICA
Carlos A. VARGAS-JIMENEZ, Lluís G. PUJADES, Arantza UGALDE, Jose A. CANAS

0830-193 SS03/08A/D-034 Poster
A FIRST STEP TOWARD INTEGRATED GEOPHYSICAL AND GEOLOGICAL STUDIES IN URBAN AREAS: PRELIMINARY RESULTS ON NEOTECTONICS IN THE SOUTHERN KYOTO BASIN.
Takanobu YOKOKURA, Naomi KANO, Kazuo YAMAGUCHI, Akiko TANAKA, Toshiki OHTAKI, Shinobu ITO, Masao KOMAZAWA, Yoshinori MIYACHI, Tomio INAZAKI

0830-194 SS03/08A/D-035 Poster
SHALLOW FAULT GEOMETRY AND SLIP PARTITIONING ASSOCIATED WITH THE IWATE-KEN NAIRIKU-HOKUBU EARTHQUAKE OF 1998 (M6.1), NORTHERN HONSHU, JAPAN
Shin KOSHIYA, Tomonori KAWAMURA, Hiroshi SATO, Masaru NODA

0830-195 SS03/08A/D-036 Poster
ACTIVE FAULT DRILLING RESEARCH ON STRESS, ELECTRICAL AND BASE ROCK STRUCTURE - FAULT ZONE STRUCTURE OF GOFUKUJI FAULT, CENTRAL JAPAN -
Kentaro OMURA, Ryuji IKEDA, Tatuo MATSUDA, Yukihiro MIZUOCHI

0830-196 SS03/08A/D-037 Poster
FAULTING AND CREEP BEHAVIOR OF COMPLICATED STRIKE-SLIP FAULT SYSTEM-A CASE OF THE ATOTSUGAWA FAULT SYSTEM, CENTRAL JAPAN
Bateer HASI, Akira TAKEUCHI, Yuki MATSUURA

0830-197 SS03/08A/D-038 Poster
GEOPHYSICAL AND GEOLOGICAL STRUCTURE OF THE ATERA ACTIVE FAULT, CENTRAL JAPAN
Tatsuo MATSUDA, Kentaro OMURA, Ryuji IKEDA

0830-198 SS03/08A/D-039 Poster
DEVELOPING PROCESS OF ACTIVE FAULT SYSTEM IN THE INNER ZONE OF WEST-CENTRAL JAPAN: A CASE OF THE ATERA FAULT BELT
Ken-ichi YASUE, Akira TAKEUCHI

0830-199 SS03/08A/D-040 Poster
BLIND THRUST FAULTS BENEATH METROPOLITAN OSAKA, SOUTHWEST JAPAN, CONSTRAINED BY TECTONIC GEOMORPHOLOGY AND SEISMIC REFLECTION PROFILES
Tatsuya ISHIYAMA, Yuichi SUGIYAMA, Karl J. MUELLER, Masaki SUEHIRO, Hiroshi YOKOTA

0830-200 SS03/08A/D-041 Poster
LATE HOLOCENE EARTHQUAKE EVENT ON AN 80-KM-LONG BLIND THRUST FAULT SYSTEM BENEATH GREATER METROPOLITAN TOKYO
Kiyohide MIZUNO, Yuichi SUGIYAMA, Yuichiro FUSEJIMA, Toshihiko SUGAI, Takashi HOSOYA, Haruo YAMAZAKI

0830-201 SS03/08A/D-042 Poster
ACTIVE TECTONICS ON THE MIDDLE PART OF TOKACHI-PLAIN FAULT ZONE, HOKKAIDO, WESTERN EDGE OF KURILE FORE-ARC SLIVER, JAPAN
Wataru HIROSE, Sunao OHTSU, Jun TAJIKA, Masazo TAKAMI

0830-202 SS03/08A/D-043 Poster
SOUTHERN EXTENSION OF SUMATRAN FAULT AND ITS TECTONIC SIGNIFICANCE, OFF SUNDA STRAIT
Wonn SOH, Yusuf S. DJAJADIHARDJA, Christoph GAEDICKE, Saneatsu SAITO, Yasutaka IKEDA

0830-203 SS03/08A/D-044 Poster
SUBSURFACE STRUCTURE BENEATH SUNDA STRAIT INFERED FROM MARINE SEISMIC REFLECTION SURVEY
Nugroho Dwi HANANTO, Hariadi PERMANA, Wahyu TRIYOSO, Sonny WINARDHIE

0830-204 SS03/08A/D-045 Poster
QUANTITATIVE EVALUATION OF INLAND SEISMIC ACTIVITY IN JAPAN BY USING GIS
Satoshi ITABA, Kunihiko WATANABE, Ryohei NISHIDA

0830-205 SS03/08A/D-046 Poster
A COMPREHENSIVE SIMULATION OF LITHOSPHERE DEFORMATION WITH FAULT SLIP USING A COUPLED METHOD OF FINITE ELEMENT METHOD WITH SPRING-BLOCK MODEL
Hanjing HONG, Yong YU, Xiuzhen ZHENG, Peixun LIU, Wei TAO

0830-206 SS03/08A/D-047 Poster
THE ROLE OF PORE FLUIDS IN THE MECHANISM OF SEISMIC SEQUENCES
Antonello PIOMBO, Michele DRAGONI

0830-207 SS03/08A/D-048 Poster
PRECISE SUPERVISION OVER MOTIONS OF THE EARTH SURFACE AND UNDERGROUND SITES
Mstislav N. DUBROV, Vladimir A. ALYOSHIN, Viktor A. VOLKOV, Anna V. KALININA, Rostislav F. MATVEEV, Sergei A. MOISEENKO

0830-208 SS03/08A/D-049 Poster
TECTONIC DEFORMATIONS DOMINATED BY NONLINEAR VON KÁRMÁN EQUATIONS
Tomoaki CHIBA, Hiroyuki NAGAHAMA

WEEK
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0830-209 SS03/08A/D-050 Poster
 VELOCITY AND STRESSES DURING TECTONIC DEFORMATION; INSIGHTS FROM DISCRETE ELEMENT SIMULATIONS
 Yasuhiro YAMADA, Atsushi TANAKA, Toshi MATSUOKA

0830-210 SS03/08A/D-051 Poster
 COMPARING GEODETIC AND GEOLOGIC DEFORMATION RATES AND PATTERNS IN SOUTHERN CALIFORNIA, U.S.A.
 Noah P. FAY, Eugene D. HUMPHREYS, Ray J. WELDON

0830-211 SS03/08A/D-052 Poster
 PSINSAR AS A RESOURCE FOR TECTONIC MODELLING IN SUBDUCTION AREAS
 Roger M.W. MUSSON, Mark HAYNES, Julian J. BOMMER, Alessandro FERRETTI

0830-212 SS03/08A/D-053 Poster
 TIDAL COMPONENTS IN GROUNDWATER LEVEL OBSERVED AT OSAKAYAMA OBSERVATORY, KINKI DISTRICT IN JAPAN
 Kunihiro SHIGETOMI, Masatake HARADA

0830-213 SS03/08A/D-054 Poster
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0830-308 SS03/08A/D-149 Poster
 CRUSTAL MODELING FROM GRAVITY AND TOPOGRAPHY CORRELATIONS
 TO CONSTRAIN VERTICAL MOTION IN THE NORTHERN US AND CANADA
 Laramie Vance POTTS, A. BRAUN, C.K. SHUM

- 0830-309

SS03/08A/D-150

Poster

A SEISMIC STUDY OF THE CRUST IN A CENTRAL SECTOR OF THE NEUQUEN BASIN, ARGENTINA (38 DEG SL)

Alberto H. COMINGUEZ, Juan R. FRANZESE
- 0830-310

SS03/08A/D-151

Poster

SEISMICITY, KINEMATICS AND CRUSTAL STRUCTURE OF CUBA

Bladimir MORENO
- 0830-311

SS03/08A/D-152

Poster

THE BLOCK STRUCTURE MODEL OF THE SUBDUCTION ZONE AND CLASS FREQUENCY LOW OF THE EARTHQUAKES

Alexander N. KROLEVETS
- 0830-312

SS03/08A/D-153

Poster

DZIRULA BASEMENT-CORED TECTONIC WEDGE: STRUCTURE AND KINEMATIC EVOLUTION, GEORGIA

Victor Michael ALANIA

SS04

Tuesday, July 8 AM

STRONG GROUND MOTION, EARTHQUAKE HAZARD AND RISK

Location: Site A, Room 3

Presiding Chairs: I.A. Parvez, F. Romanelli, H. Goto, K. Irikura

- 0830

SS04/08A/A03-001

THE CHARACTERISTICS OF STRONG GROUND MOTIONS IN NEAR SOURCE

Guoxin WANG, Hongnan LI
- 0845

SS04/08A/A03-002

THE ATTENUATION OF STRONG GROUND MOTION IN TERMS OF INPUT ENERGY

Mao-Sheng GONG, Li-Li XIE
- 0900

SS04/08A/A03-003

STUDY ON THE SEVEREST REAL GROUND MOTION FOR SEISMIC DESIGN AND ANALYSIS

Chang-Hai ZHAI, Li-Li XIE
- 0915

SS04/08A/A03-004

3D FINITE DIFFERENCE SIMULATION WITH IRREGULAR TOPOGRAPHIC SURFACE

Wei ZHANG, Xiaofei CHEN
- 0930

SS04/08A/A03-005

NUMERICAL SIMULATION OF STRONG MOTION AROUND ADAPAZARI BASIN DURING THE1999 KOCAERI EARTHQUAKE, TURKEY

Hiroyuki GOTO, Sumio SAWADA
- 0945

SS04/08A/A03-006

MICROZONATION AND SITE-SPECIFIC GROUND MOTION MODELLING FOR DELHI CITY

Imtiyaz Ahmed PARVEZ, Franco VACCARI, Giuliano Francesco PANZA
- 1000

SS04/08A/A03-007

ON PRECISION OF S-WAVE VELOCITY STRUCTURE DETERMINED BY THE SPATIAL AUTO-CORRELATION METHOD USING MICROTREMORS

Seiji TSUNO, Kazuyoshi KUDO, Tatsuo KANNO
- 1015

SS04/08A/A03-008

BOOTSTRAP RESAMPLING FOR IMPROVEMENT IN THE NONPARAMETRIC SEISMIC HAZARD ESTIMATION

Beata ORLECKA-SIKORA

1030

BREAK

- 1045

SS04/08A/A03-009

DYNAMIC SOURCE PARAMETERS AND CHARACTERIZED SOURCE MODEL

Tomotaka IWATA, Haruko SEKIGUCHI, Hiroe MIYAKE, Wenbo ZHANG, Ken MIYAKOSHI
- 1100

SS04/08A/A03-010

BROADBAND SOURCE ASPERITY MODEL OF THE 2000 TOTTORI EARTHQUAKE (JAPAN) FROM A NONLINEAR INVERSION OF NEAR-FAULT GROUND MOTION

Nelson Edilberto PULIDO, Tetsuo KUBO
- 1115

SS04/08A/A03-011

EARTHQUAKE SOURCE AND GROUND MOTION CHARACTERISTICS OF THE JUNE 23, 2001 MW 8.4 AREQUIPA, PERU EARTHQUAKE

Paul Graham SOMERVILLE, Hong Kie THIO, Gene ICHINOSE, Nancy COLLINS, Arben PITARKA, Robert GRAVES
- 1130

SS04/08A/A03-012

SEISMIC ENERGY DISTRIBUTION ON THE FAULT PLANES OF GREAT INTERPLATE EARTHQUAKES OCCURRED ALONG THE NANKAI TROUGH REPEATEDLY DURING 300 YEARS

Katsuhisa KANDA, Masayuki TAKEMURA, Tatsuo USAMI

- 1145

SS04/08A/A03-013

SOURCE MODEL OF THE 1979 IMPERIAL VALLEY EARTHQUAKE ESTIMATED FROM STRONG-MOTION WAVEFORMS, WITH NEW GEOTECHNICAL DATA

Ken MIYAKOSHI, Kazuyoshi KUDO, Tomotaka IWATA, Rikiro KIKUCHI, Yasuhiro OHTSUKA, Susumu OHNO
- 1200

SS04/08A/A03-014

AN ANALYSIS OF LOCALLY RECORDED BROADBAND WAVEFORMS OFTHE 10 AUGUST, 1997 (MW 6.3) COLLIER BAY EARTHQUAKE, NW AUSTRALIA

Phil R. CUMMINS
- 1215

SS04/08A/A03-015

AN ASSESSMENT OF TECTONIC STRESS FIELD AND SEISMIC HAZARD IN THE NEPAL HIMALAYA

Kedar Nath KHANAL

Tuesday, July 8

PM

IA

INTER-ASSOCIATION

JSG01-Posters

Tuesday, July 8 PM

SECULAR, TRANSIENT AND PERIODIC CRUSTAL MOVEMENTS AND THEIR GEOPHYSICAL IMPLICATIONS (IAG, IASPEI)

Location: Site D

- 1400-001

JSG01/08P/D-001

Poster

STRAIN DISTRIBUTION AROUND THE HANAORI FAULT IN KINKI DISTRICT OF JAPAN BY DENSE GPS NETWORK

Fumio OHYA, Kunihiro SHIGETOMI, Yoshinobu HOSO, Kajuro NAKAMURA
- 1400-002

JSG01/08P/D-002

Poster

INTER-PLATE COUPLING BENEATH THE NE JAPAN ARC INFERRED FROM 3 DIMENSIONAL CRUSTAL DEFORMATION

Yoko SUWA, Satoshi MIURA, Akira HASEGAWA, Toshiya SATO, Kenji TACHIBANA
- 1400-003

JSG01/08P/D-003

Poster

TECTONICS IN THE KINKI DISTRICT, JAPAN

Kunio FUJIMORI
- 1400-004

JSG01/08P/D-004

Poster

SPATIO-TEMPORAL DISTRIBUTION OF INTERPLATE COUPLING IN SOUTHWEST JAPAN DEDUCED FROM INVERSION ANALYSIS

Takeo ITO, Manabu HASHIMOTO
- 1400-005

JSG01/08P/D-005

Poster

A MODEL WITH RIGID ROTATIONS AND SLIP DEFICITS FOR THE GPS DERIVED VELOCITY FIELD IN SOUTHWEST JAPAN

Sou NISHIMURA, Manabu HASHIMOTO
- 1400-006

JSG01/08P/D-006

Poster

CRUSTAL DEFORMATION OF THE NE JAPAN ARC AS DERIVED BY CONTINUOUS GPS OBSERVATIONS

Toshiya SATO, Satoshi MIURA, Yoko SUWA, Akira HASEGAWA, Kenji TACHIBANA
- 1400-007

JSG01/08P/D-007

Poster

TECTONIC CREEP OF THE ATOTSUGAWA FAULT SYSTEM, INFERRED FROM GPS OBSERVATION

Yuki MATSUURA, Akira TAKEUCHI
- 1400-008

JSG01/08P/D-008

Poster

CURRENT DEFORMATION AT THE ITOGAWA-SHIZUOKA TECTONIC LINE IN CENTRAL JAPAN DETECTED BY GPS

S. Jason ZHAO, Y. KANEDA
- 1400-009

JSG01/08P/D-009

Poster

CURRENT PLATE KINEMATICS IN NORTHEASTERN ASIA BY GPS DATA: INTERACTION OF AMURIAN OKHOTSK, EURASIA AND NORTH AMERICAN PLATES

Hiroaki TAKAHASHI, Evgenii I. GORDEEV, Vilory F. BAKHTIAROV, Vasily E. LEVIN, Nikolay F. VASILENKO, Alexei IVASHCHENKO, Mikhail D. GERASIMENKO, Nikolay SHESTAKOV, Vladimir A. BORMOTOV, Minoru KASAHARA
- 1400-010

JSG01/08P/D-010

Poster

ON THE CRUSTAL DEFORMATION STUDY FROM PERMANENT GPS STATIONS IN KOREA

Hong-Sic YUN, Jae-Myoung CHO

WEEK

B

TUE

PM

1400-011 JSG01/08P/D-011 Poster
CRUSTAL DEFORMATION ALONG PLATE BOUNDARY OF TAIWAN
Chi-Ching LIU

1400-012 JSG01/08P/D-012 Poster
NICOYA, COSTA RICA, TRANS-PENINSULA GPS EXPERIMENT AND INTER-PLATE COUPLING
Takeshi IINUMA, Marino PROTTI, Koichiro OBANA, Shin'ichi MIYAZAKI, Victor GONZALEZ, Rodolfo VAN DER LAAT, Teruyuki KATO, Yoshiyuki KANEDA, Enrique HERNANDEZ

1400-013 JSG01/08P/D-013 Poster
DETECTION OF RECENT TECTONIC MOVEMENTS AT THE WESTERN PART OF NORTH ANATOLIAN FAULT ZONE (NAFZ) BY GEODETIC TECHNIQUES
Haluk OZENER, Asli Garagon DOGRU, Onur YILMAZ, Bulent TURGUT, Onur GURKAN

1400-014 JSG01/08P/D-014 Poster
3-D VISCOELASTIC FEM MODELING OF POSTSEISMIC DEFORMATION CAUSED BY THE 1964 ALASKA EARTHQUAKE, SOUTHERN ALASKA
Hisashi SUITO, Jeffrey T. FREYMUELLER, Steven C. COHEN

1400-015 JSG01/08P/D-015 Poster
SECULAR AND TRANSIENT CRUSTAL MOVEMENTS IN THE 1964 ALASKA EARTHQUAKE SUBDUCTION ZONE
Steven Charles COHEN, Jeffrey FREYMUELLER, Chris LARSEN, Hisashi SUITO, Chris ZWECK

1400-016 JSG01/08P/D-016 Poster
POSTSEISMIC DEFORMATION FOLLOWING THE 2000 WESTERN TOTTORI EARTHQUAKE, SOUTHWEST JAPAN, USING GEONET AND URGENT CAMPAIGN GPS DATA
Manabu HASHIMOTO, Takeo ITO, Takao TABEL, Takeshi SAGIYA

1400-017 JSG01/08P/D-017 Poster
SYSTEMATIC DETECTION OF TRANSIENT AND PERMANENT CRUSTAL DEFORMATION USING HIGH-DENSITY GPS NETWORK DATA
Yuzo TOYA, Minoru KASAHARA

1400-018 JSG01/08P/D-018 Poster
PRECISE MEASUREMENT OF SOUND VELOCITY AND ATTENUATION IN SITU FOR AN ESTIMATION OF SMALL STRESS CHANGE
Osam SANO, Keiko YAMAMURA, Yasuko TAKEI, Shigeru NAKAO, Hisashi UTADA, Yoshio FUKAO

1400-019 JSG01/08P/D-019 Poster
CRUSTAL DEFORMATION IN THE KANTO-CHUBU DISTRICT AT AND AFTER THE 2000 SEISMO-VOLCANIC EVENT IN THE NORTHERN IZU ISLANDS
Akio KOBAYASHI, Hiromi TAKAYAMA, Takeyasu YAMAMOTO, Akio YOSHIDA

1400-020 JSG01/08P/D-020 Poster
HORIZONTAL STRAIN CHANGES IN SOUTHWEST JAPAN USING PARTITIONING MODEL AND GPS DATA (1997-2000)
Sayyed Keivan HOSSEINI, Takeshi MATSUSHIMA, Sadaomi SUZUKI

1400-021 JSG01/08P/D-021 Poster
CHARACTERISTIC SILENT EARTHQUAKES IN THE EASTERN PART OF THE BOSO PENINSULA, CENTRAL JAPAN
Shinzaburo OZAWA, Shin'ichi MIYAZAKI, Yuki HATANAKA, Tetsuo IMAKIIRE, Masaru KAIDZU, Makoto MURAKAMI

1400-022 JSG01/08P/D-022 Poster
APPLICATION OF KALMAN FILTERING TECHNIQUES TO POST-SEISMIC SLIP PREDICTION OF THE 1999 TAIWAN CHI-CHI EARTHQUAKE
Din-Yao JENG, Wei-Cheng HUANG

1400-023 JSG01/08P/D-023 Poster
THE SILENT EARTHQUAKE OF 2002 (MW=7.3) IN THE GUERRERO SEISMIC GAP, MEXICO: MAPPING OF SLIP ON THE PLATE INTERFACE AND THE ASSOCIATED STRESS CHANGE
Shri Krishna SINGH, Vladimir KOSTOGLODOV, Kristine M. LARSON, Anthony R. LOWRY, Roger BILHAM, Takeshi MIKUMO, Miguel SANTOYO, Arturo IGLESIAS

1400-024 JSG01/08P/D-024 Poster
PRINCIPAL COMPONENT ANALYSIS FOR THE DISPLACEMENTS OF GPS STATIONS IN THE KANTO AND TOKAI DISTRICTS IN JAPAN
Masashi KAWAMURA, Koshun YAMAOKA

1400-025 JSG01/08P/D-025 Poster
POSTSEISMIC CHANGES OBSERVED IN JAPAN NATIONWIDE TILTMETER ARRAY
Hitoshi HIROSE, Fumio YAMAMIZU, Kazushige OBARA

1400-026 JSG01/08P/D-026 Poster
SPATIAL AND TEMPORAL DISTRIBUTION OF AFTERSLIP FOR THE 1995 HYOGO-KEN NANBU EARTHQUAKE INFERRED FROM SURFACE DISPLACEMENT DATA OBTAINED WITH GPS OBSERVATIONS
Takehide NAKANO, Kazuro HIRAHARA

1400-027 JSG01/08P/D-027 Poster
IS THE MOTION OF THE SOUTH HEMISPHERE SLOWING DOWN?
Shuanggen JIN, Wenyao ZHU

1400-028 JSG01/08P/D-028 Poster
THE STRAIN FIELD AROUND THE NORTHERN PART OF THE NASSER LAKE, EGYPT, DERIVED FROM GPS MEASUREMENTS AND ITS TECTONIC IMPLICATIONS
Gamal EL-FIKY, Divakar REDDY, Ali TEALEB

1400-029 JSG01/08P/D-029 Poster
RELATIVE DISPLACEMENT ACROSS THE FRACTURE ZONE
Keisuke TANIGUCHI, Kazuo OIKE

1400-030 JSG01/08P/D-030 Poster
QUANTITATIVE EVALUATION OF LOADING EFFECTS ON SEASONAL VARIATION IN GEONET GPS DATA
Hiroshi TAKIGUCHI, Yoichi FUKUDA

1400-031 JSG01/08P/D-031 Poster
THE SEA LEVEL VARIATION IN THE RANGE OF PERIODS FROM 1 HOUR TO 2 DAYS IS THE NEW SOURCE OF INFORMATION ABOUT TO UNDERWATER EARTHQUAKE
Vladimir V. IVANOV

1400-032 JSG01/08P/D-032 Poster
GEODETIC INFRASTRUCTURE IN INDIA, WHAT IS WRONG AND WHAT NEEDS TO BE DONE
Nand Kishore AGRAWAL

1400-033 JSG01/08P/D-033 Poster
STRAINMETER UNITS IN A TERRESTRIAL REFERENCE FRAME SERVING
Ludmila A. LATYNINA, Mstislav N. DUBROV

1400-034 JSG01/08P/D-034 Poster
AN INVERSION METHOD OF CRUSTAL DEFORMATION ON THE BASIS OF DISCONTINUOUS DEFORMATION ANALYSIS (DDA) AND BOUNDARY ELEMENT METHOD (BEM)
Yun WU, Chong-yang SHEN, Shao-qun JING, Hui WANG

1400-035 JSG01/08P/D-035 Poster
MODERNIZATION OF THE NATIONAL GEODETIC NETWORK
Maturana Alejandro MATURANA

1400-036 JSG01/08P/D-036 Poster
SEISMIC GROUND MOTION OBSERVED BY THE TAIWAN CONTINUOUS GPS ARRAY - IN THE CASE OF 31 MARCH 2002 HUALIEN EARTHQUAKE
Hong-Yue CHEN, Long-Chen KUO, Wang-Shung CHUNG, Shui-Bei YU

1400-037 JSG01/08P/D-037 Poster
DISTORTIONS IN DENSITY DUE TO INACCURATE AVERAGE DEPTH OF A LAYER IN THE LOWER HALF-SPACE
Ateya Ismail LUKANDU, Shuzo TAKEMOTO

1400-038 JSG01/08P/D-038 Poster
EFFECTS OF A HORIZONTAL SURFACE LAYER ON STATIC AND DYNAMIC DISPLACEMENTS
Ryou HONDA, Kiyoshi YOMOGIDA

JSA01 Tuesday, July 8 PM

LONG-TERM TRENDS IN THE MESOSPHERE, THERMOSPHERE AND IONOSPHERE (IAGA, IAMAS)
Location: Site A, Room 12

Presiding Chairs: G. Beig, M. Jarvis

1400 JSA01/08P/A12-001
TRENDS IN THE MLTI FROM A POLAR PERSPECTIVE
Martin J. JARVIS

1430 JSA01/08P/A12-002
LONG-TERM TRENDS IN THE LOWER IONOSPHERE BELOW 120 KM
Jan LASTOVICKA, Juergen BREMER

1500 JSA01/08P/A12-003
TRENDS IN THE NEUTRAL AND IONIZED PARTS OF THE MLT REGION
Bremer JUERGEN

1520 JSA01/08P/A12-004
SOLAR-CYCLE VARIATION OF BACKGROUND COSMIC RADIO NOISE OBSERVED BY THE IMAGING RIOMETER IN THE POLAR CAP
Masanori NISHINO, Hisao YAMAGISHI, Jan HOLTET

1540 BREAK

1610 JSA01/08P/A12-005
LONG-TERM TRENDS OF F2-LAYER PARAMETERS INDEPENDENT OF GEOMAGNETIC ACTIVITY
Alexei D. DANILOV

1640 JSA01/08P/A12-006
THE MLTI IMPACTS OF SOLAR ACTIVITY TRENDS IN THE 20TH AND 21ST CENTURIES
Mark Andrew CLILVERD, Ellen CLARKE, Henry RISHBETH, Thomas ULICH

1700 JSA01/08P/A12-007
REGIONAL VARIABILITY OF LONG-TERM VARIATIONS OF MIDLATITUDE E SPORADIC LAYER
Oleg Nikolaevich SHERSTYUKOV, Sergey Vladimirovich MAKSYUTIN

JSH01-Posters Tuesday, July 8 PM

THE REMOTE SENSING OF THE CRYOSPHERE (IAHS [ICSI, ICRS], IAMAS, IAPSO)
Location: Site D

- Presiding Chair: R. Armstrong
- 1400-039 JSH01/08P/D-001 Poster**
MONITORING OF IMJA GLACIER LAKE IN THE EAST NEPAL USING THE SATELLITE IMAGE
Hironori YABUKI
- 1400-040 JSH01/08P/D-002 Poster**
GIS-BASED GLACIER INVENTORY OF CHINA
Zong Li WU, Xin LI
- 1400-041 JSH01/08P/D-003 Poster**
INVENTORY OF GLACIAL LAKES AND IDENTIFICATION OF GLACIAL LAKE OUTBURST FLOODS IN THE PUMQU BASIN, TIBET
Tao CHE, Xin LI, Rui JIN, Zong Li WU
- 1400-042 JSH01/08P/D-004 Poster**
SEQUENTIAL ESTIMATION OF MESO-SCALE SEA ICE MOTION FROM SATELLITE IMAGES OF MULTIPLE RESOLUTIONS
Tsuyoshi WAKAMATSU, Motoyoshi IKEDA
- 1400-043 JSH01/08P/D-005 Poster**
SEA ICE CLASSIFICATION USING QUIKSCAT SEAWINDS SCATTEROMETER DATA
Rasmus T. TONBOE, Joerg HAARPAINTER
- 1400-044 JSH01/08P/D-006 Poster**
ASSESSMENT OF AMSR-E SEA ICE PRODUCTS USING IN-SITU OBSERVATIONS AND MODELING
James Andrew MASLANIK, Julieanne STROEVE, Matthew STURM, Thorsten MARKUS, John HEINRICHS, Don CAVALIERI
- 1400-045 JSH01/08P/D-007 Poster**
SATELLITE INVESTIGATIONS OF FAST ICE BREAKUP IN EAST GREENLAND FJORDS
Evelyn K. DOWDESWELL
- 1400-046 JSH01/08P/D-008 Poster**
SATELLITE OBSERVATIONS OF SEA ICE TRANSPORT IN THE SEA OF OKHOTSK
Hiroyuki ENOMOTO, Kazutaka TATEYAMA, Takashi KUMANO
- 1400-047 JSH01/08P/D-009 Poster**
REMOTE SENSING OF SNOW GRAIN SIZE AND SNOW IMPURITY CONCENTRATIONS AND THEIR IMPACT ON THE RADIATION BUDGET
Teruo AOKI, Masahiro HORI, Knut STAMNES, Hiroki MOTOYOSHI, Tomonori TANIKAWA, Akihiro HACHIKUBO
- 1400-048 JSH01/08P/D-010 Poster**
SNOW ACCUMULATION STUDIES IN ANTARCTICA WITH GROUND PENETRATING RADAR USING 50, 100 AND 800 MHZ ANTENNA FREQUENCIES
Anna Katariina SINISALO, Aslak GRINSTED, John MOORE, Eija KärKäs, Rickard PETTERSON
- 1400-049 JSH01/08P/D-011 Poster**
A PROCEDURE FOR CLASSIFYING DRY SNOW, WET SNOW AND FROZEN SOIL BY USING MICROWAVE REMOTE SENSING
Xin LI, Tao CHE, Richard L. ARMSTRONG, Lizong WU
- 1400-050 JSH01/08P/D-012 Poster**
SPECTRAL CHARACTERISTIC-BASED VEGETATION AND SNOW INDICES ON VARIOUS SURFACES IN THE AIRBORNE MULTI-SPECTRAL SCANNER (AMSS) TWO-ALTITUDE OBSERVATION IN 2001
Ken MOTOYA
- 1400-051 JSH01/08P/D-013 Poster**
MICROWAVE AND MICROMETEOROLOGICAL OBSERVATIONS OF WINTER SNOW IN ROCKY MOUNTAIN
Haoyu GU

JSM03 Tuesday, July 8 PM

LAND-OCEAN-ATMOSPHERE INTERACTIONS IN THE COASTAL ZONE (IAMAS, IAPSO, IAHS)
Location: Site A, Room 13

- Presiding Chair: G.L. Geernaert
- 1400 JSM03/08P/A13-001**
STUDY OF AIR TEMPERATURE MULTI-YEAR VARIATION AND ITS RELATION TO SEA ICE IN THE BOHAI SEA USING EMD METHOD
Jie SU, Jinping ZHAO
- 1420 JSM03/08P/A13-002**
EFFECTS OF STABILITY WITHIN SPARSE CANOPIES ON AERODYNAMIC RESISTANCE IN ROUGHNESS SUBLAYER OBTAINED BY WIND TUNNEL EXPERIMENT
Susumu KURITA
- 1440 JSM03/08P/A13-003**
THE COASTAL OCEAN DRAG COEFFICIENT
Gerald L. GEERNAERT
- 1500 JSM03/08P/A13-004**
COUPLED RADIATIVE AND THERMAL TRANSFER REGIMES OVER SHALLOW-WATER BENTHIC ENVIRONMENTS
Enrico C. PARINGIT, Kazuo NADAOKA

- 1520 BREAK**
- 1540 JSM03/08P/A13-005**
LAND OCEAN INTERACTIONS IN THE COASTAL ZONE: ON THE ROLE OF COASTAL FLORA IN STABILIZING TERRESTRIAL GAINS
Balchand N. ALUNGAL
- 1600 JSM03/08P/A13-006**
CHANGE IN CHLOROPHYLL CONCENTRATION AFTER EARTHQUAKES AND ASSOCIATED LAND-OCEAN-ATMOSPHERIC PROCESSES
Ramesh P. SINGH, Sagnik DEY
- 1620 JSM03/08P/A13-007**
TRANSFERTS DE FLUX ET STABILIT - DE LA FACADE MARITIME DU DELTA DU FLEUVE SÉNÉGAL
Alioune KANE
- 1640 JSM03/08P/A13-008**
RESERVOIR INTERCEPTION OF GLOBAL SEDIMENT FLUX TO THE COASTAL ZONE
Charles J. VOROSMARTY, Michel MEYBECK, Balazs M. FEKETE, Keshav SHARMA, Pamela GREEN, James SYVITSKI
- 1700 JSM03/08P/A13-009**
APPLICATION OF LASER STRAINMETERS IN GEOPHYSICAL STUDIES OF TRANSITIONAL ZONES
Grigoriy I. DOLGIKH

JSM10 Tuesday, July 8 PM

CRYOSPHERE-CLIMATE INTERACTIONS (IAMAS [ICCL, ICPM], IAPSO, IAHS)
Location: Site B, Room 23

- Presiding Chair: T. Lachlan-Cope
- GLACIERS AND PERMAFROST**
- 1400 JSM10/08P/B23-001**
RESPONSE OF MOUNTAIN GLACIERS AND PERMAFROST TO CLIMATE CHANGE
Andreas KAEAEB
- 1440 JSM10/08P/B23-002**
EVALUATION OF SNOW COVER AND PERMAFROST FEATURES IN NORTHERN EURASIA FOR SOME CLIMATE CHANGE SCENARIOS
Andrey B. SHMAKIN
- 1500 JSM10/08P/B23-003**
SEASONAL CHANGES IN RUNOFF CHARACTERISTICS AT A SMALL WATERSHED IN THE SOUTHERN MOUNTAINOUS REGION, EASTERN SIBERIA
Yusuke YAMAZAKI, Jumpei KUBOTA, Kazuyoshi SUZUKI, Tetsuo OHATA, Valery S. VUGLINSKY
- 1520 JSM10/08P/B23-004**
ON THE USE OF A DISTRIBUTED ENERGY BALANCE MODEL TO SIMULATE THE MELTING OF A TROPICAL GLACIER
Jean E. SICART, Regine HOCK, Pierre RIBSTEIN
- 1540 BREAK**

WEEK
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1600 JSM10/08P/B23-005
 MODELLING THE DEGREE OF CONTINENTALITY OF GLACIER REGIMES AS A TOOL FOR CLIMATE HISTORY RECONSTRUCTION
 Georg KASER

1620 JSM10/08P/B23-006
 RETREAT OF SUNTAR-KHAYATA GLACIERS AS A CONSEQUENCE OF THE REGIONAL CLIMATE CHANGE
 Maria D. ANANICHEVA, Jean Luc MERCIER

1640 JSM10/08P/B23-007
 THE STUDY OF GLACIER FLUCTUATIONS USING REMOTE SENSING IN PURUOGANGRIMOUNTAINS OF TIBET
 Anxin LU

1700 JSM10/08P/B23-008
 GLACIER CHANGE AND ITS FORCING CAUSE IN THE SOURCE REGIONS OF THE YANGTZE AND YELLOW RIVERS ON THE TIBETAN PLATEAU
 Yongjian DING, Yang JIANPING, Chen RENSHENG, Liu SHIYIN, Lu ANXIN

JSM14 Tuesday, July 8 PM

DYNAMICS AND PREDICTABILITY OF SEVERE WEATHER EVENTS (IAMAS [ICDM, ICCP], IAHS)
 Location: Site A, Room 5

Presiding Chairs: M. Shapiro, J. Turner

1400 JSM14/08P/A05-001 Invited
 THE AUGUST 2002 FLOOD IN CENTRAL EUROPE - LESSONS LEARNED
 Gerd TETZLAFF, Manfred MUDELSEE, Michael BOERNGEN

1435 JSM14/08P/A05-002 Invited
 DYNAMICS OF HEAVY PRECIPITATION EVENTS ON THE SOUTH-SIDE OF THE EUROPEAN ALPS
 Huw C. DAVIES, Francois GHEUSI, Alexia MASSACAND, Heini WERNLI

1510 JSM14/08P/A05-003
 SPECTRAL CHARACTERISTICS OF THE BORA WIND
 Mirko ORLIC, Miroslava PASARIC, Zoran PASARIC

1525 POSTER PREVIEW SESSION

1610 BREAK

1625 JSM14/08P/A05-004 Invited
 MOIST SINGULAR VECTORS AND DAMAGING EUROPEAN CYCLONES
 Brian HOSKINS, Mariane COUTINHO

1700 JSM14/08P/A05-005
 MOIST BAROCLINIC LIFE CYCLES ON A ZERO-PVE JET
 Maurizio FANTINI

1715 JSM14/08P/A05-006
 HAILSTORM MODELING USING DOWNSCALING TECHNIQUE
 Ernest N'Dri KOFFI, Stephane GOYETTE, Marc WUEST, Marjorie PERROUD

1730 JSM14/08P/A05-007
 PREDICTABILITY OF HAILSTORM DEVELOPMENT IN VICINITY OF DEEP VALLEY
 Mladjen M. CURIC, Dejan JANC, Vladan VUCKOVIC, Dragana VUJOVIC

1745 JSM14/08P/A05-008
 ANALYSIS AND SIMULATION OF THE 4TH NOVEMBER 1966 STORMOVER ITALY
 Piero LIONELLO, Andi NUHU, Simona DE ZOLT

JSP07 Tuesday, July 8 PM

THE COASTAL OCEAN OBSERVING SYSTEM (IAPSO, IAG, IOC)
 Location: Site B, Room 17

Presiding Chair: O. Schofield

1400 JSP07/08P/B17-001 Invited
 MODELLING: MORE QUESTIONS THAN ANSWERS?
 Paul TETT

1430 JSP07/08P/B17-002
 VARIABILITY OF SOLAR TRANSMISSION AND RADIANT HEATING RATE IN THE COASTAL OCEAN: OPTICAL IMPACTS
 Grace C. CHANG, Tommy D. DICKEY

1450 JSP07/08P/B17-003
 SPATIAL GRADIENTS IN BIOGEOCHEMICAL FLUX TO THE SEABED IN TIDE-STIRRED SHELF SEAS
 Colin F. JAGO, Sarah E. JONES

1510 JSP07/08P/B17-004
 EXAMINATION OF SILICATE LIMITATION OF PRIMARY PRODUCTION IN JIAOZHOU BAY, NORTH CHINA IV TRANSECT OFFSHORE FROM THE COAST WITH THE ESTUARIES
 Dongfang YANG

1530 JSP07/08P/B17-005
 A REVIEW TO DISTRIBUTION OF MACRO-MEIOFUNA AND SUBSTRATE CHARACTERISTICS IN IRANIAN CASPIAN SEA SHORES OFF GUILAN PROVINCE
 Alireza MIRZAJANI

JSP07-Posters Tuesday, July 8 PM

THE COASTAL OCEAN OBSERVING SYSTEM (IAPSO, IAG, IOC)
 Location: Site D

1400-052 JSP07/08P/D-001 Poster
 PECHORA SEA'S MICROPHYTOBENTHOS AT LATE AUTUMN AND ITS RELATIONS WITH TIDAL CYCLE
 Filip Vjacheslavovich SAPOZHNIKOV

JSP10 Tuesday, July 8 PM

ROTATING AND STRATIFIED FLUIDS (IAPSO, IAGA, IAMAS, SEDI)
 Location: Site B, Room 21

Convener: J.-B. Flor
 Co-Conveners: G. Carnevale, H. Fernando, E. Ermanyuk, R. Kloosterziel, J. Riley, M. Ungarish, O.V. Fuentes

1400 JSP10/08P/B21-001 Invited
 LARGE-SCALE EXPERIMENTAL STUDY OF THE FORMATION OF ZONAL JETS IN CONVECTIVELY-DRIVEN GEOSTROPHIC TURBULENCE ON A TOPOGRAPHIC BETA-PLANE
 Peter Leonard READ, Stephen LEWIS, Paul WILLIAMS, Yasuhiro YAMAZAKI, Kuniko YAMAZAKI, Joel SOMMERIA, Adam FINCHAM, Henri DIDELLE

1430 JSP10/08P/B21-002
 RECONSIDERATION OF EQUATORIAL INERTIAL INSTABILITY
 Hiroshi TANIGUCHI, Masaki ISHIWATARI

1450 JSP10/08P/B21-003
 SUPPRESSION OF THE RHINES-EFFECT BY STRONG HORIZONTAL DIVERGENCE IN A SYSTEM GOVERNED BY THE CHM EQUATION ON A BETA-PLANE
 Akira OKUNO, Akira MASUDA

1510 JSP10/08P/B21-004
 SHEAR INSTABILITY IN SPEHRICAL SHALLOW WATER SYSTEM
 Shin-ichi IGA, Yoshihisa MATSUDA

1530 JSP10/08P/B21-005
 INSTABILITIES OF INTERNAL SHEAR LAYERS IN ROTATING FLUIDS
 Nathanael SCHAEFFER, Philippe CARDIN

JSP10-Posters Tuesday, July 8 PM

ROTATING AND STRATIFIED FLUIDS (IAPSO, IAGA, IAMAS, SEDI)
 Location: Site D

1610-053 JSP10/08P/D-001 Poster
 ON THE FORM DRAG CAUSED BY TOPOGRAPHICALLY FORCED ROSSBY WAVES IN A BAROTROPIC BETA CHANNEL
 Keisuke UCHIMOTO, Atsushi KUBOKAWA

1610-054 JSP10/08P/D-002 Poster
 TOPOGRAPHIC EFFECTS ON WIND DRIVEN OCEANIC CIRCULATION
 Sebastien BIGORRE, William K. DEWAR

1610-055 JSP10/08P/D-003 Poster
 NONHYDROSTATIC SIMULATIONS OF THE IMPACT OF PLANETARY ROTATION ON CROSS-SLOPE FLOWS
 Patrick Charles GALLACHER, Steve PIACSEK

1610-056 JSP10/08P/D-004 Poster
 CHAOTIZATION OF A PULSATING BAROTROPIC FLOW OVER AN ELLIPTIC SEAMOUNT
 Yuri G. IZRAILSKY

1610-057 JSP10/08P/D-005 Poster
 CHAOTIC ADVECTION IN BACKGROUND CURRENTS MODELS OF GEOPHYSICAL HYDRODYNAMICS
 Konstantin V. KOSHEL, Vadim Fedorovich KOZLOV

1610-058 JSP10/08P/D-006 Poster
OCEANIC FLOWS DRIVEN BY AN EKMAN PUMPING DIPOLE IN A QUASI-GEOSTROPHICMODEL
Atsushi KUBOKAWA, Atsushi MOTOKI, Keisuke UCHIMOTO

1610-059 JSP10/08P/D-007 Poster
AN ASSESSMENT OF BOUNDARY LAYER PUMPING IN THE INVISCIDLY BALANCED APPROXIMATION EQUATION SYSTEM: LINEAR TRANSIENT PROBLEM
Shin-Ichi ISHIDA, Takahiro IWAYAMA

1610-060 JSP10/08P/D-008 Poster
A NEW TYPE OF ISLAND RULE FOR THE ABYSSAL CIRCULATION BASED ON THE VOLUME TRANSPORTS IN BOUNDARY LAYERS AND ITS APPLICATION TO THE WIND-DRIVEN CIRCULATION IN AN OCEAN WITH MULTIPLE ISLANDS
Akira MASUDA, Akira OKUNO

1610-061 JSP10/08P/D-009 Poster
EXPERIMENTAL AND NUMERICAL INVESTIGATION OF LABORATORY VORTICES WITH DATA ASSIMILATION
Martin Paul GALMICHE, Joel SOMMERIA, Emmanuelle THIVOLLE-CAZAT, Jacques VERRON

1610-062 JSP10/08P/D-010 Poster
INSTABILITY OF A COLUMNAR VORTEX IN A STRATIFIED FLUID
Benjamin CARITEAU, Jan-Bert FLOR

1610-063 JSP10/08P/D-011 Poster
SPONTANEOUS FORMATION OF STEP-LIKE STRATIFICATION DUE TO DIFFUSIVEINSTABILITY
Takashi NOGUCHI, Hiroshi NIINO

1610-064 JSP10/08P/D-012 Poster
INERTIA-GRAVITY WAVE GENERATION FROM UNSTABLE CURRENTS
Marie-Pascale G. LELONG, Timothy J. DUNKERTON

1610-065 JSP10/08P/D-013 Poster
EXTENDED JETS PRODUCED BY A FREE OSCILLATING BODY ON A NEYTRAL BUOYANCY HORIZON IN A CONTINUOSLY STRATIFIED LIQUID
Yuli D. CHASHECHKIN, Vladimir V. LEVITSKIY, Yuri V. PRIKHOD'KO

1610-066 JSP10/08P/D-014 Poster
A FINE STUCTURE OF A STRATIFIED FLOW AROUND A HORIZONTAL STRIP UNIFORMLY MOVING IN A CONTINUOUSLY STRATIFIED FLUID
Vladimir Y. MITKIN, Yuli D. CHASHECHKIN, Roman N. BARDAKOV

1610-067 JSP10/08P/D-015 Poster
GENERATION OF 3D PERIODIC INTERNAL WAVE BEAMS BY A COMPACT SOURCE IN AN EXPONENTIALLY STRATIFIED FLUID
Aleksey Yu. VASILIEV, Yuli D. CHASHECHKIN

1610-068 JSP10/08P/D-016 Poster
NUMERICAL SIMULATION OF THE CIRCULATION PATTERN OF THE LEVANTINE BASIN
Khaled A. ALAM EL-DIN, Sayed H. SHARAF EL-DIN, Omneya M. IBRAHIM

1610-069 JSP10/08P/D-017 Poster
ULTRASOUND SCATTERING FROM STRATIFIED WAKES PAST A 2D BODY AND SINGULAR CIRCULAR VORTEX
Viktor E. PROHOROV, Yuli D. CHASHECHKIN

JSP11-Posters Tuesday, July 8 PM

GEOPHYSICAL RISK AND VULNERABILITY: THE POPULATION-HAZARD INTERACTION (IAPSO, IAGA, IAHS, IAMAS, IASPEI, IAVCEI)
Location: Site D

1400-070 JSP11/08P/D-001 Poster
THE EFFECT OF SMAZE ON PRECIPITATION PROCESS OVER TEHRAN
Seyed Alireza SADEGHI HOSSEINI, Javad RAHELI SALIMI

1400-071 JSP11/08P/D-002 Poster
RHYTHMS OF RATS RESISTANCE TO HYPOXIA DEPEND ON GEOMAGNETIC ACTIVITY
Youry P. SIZOV, Maryam L. KHACHATURYAN

1400-072 JSP11/08P/D-003 Poster
DROUGHT MONITORING USING NORMALIZED DIFFERENCES VEGETATION INDEX (NDVI) OVER I. R. OF IRAN
Javad BODAGHJAMALI, Sohaila JAVANMARD, Mehdi RAHNEMA, Sara ATTARCHI

1400-073 JSP11/08P/D-004 Poster
NORTH ARMENIAN SEISMIC RISK ASSESSMENT
Edvard Grigori GEDAKYAN, Mkrtchyan MARIAM

1400-074 JSP11/08P/D-005 Poster
DETERMINATION OF SUBSURFACE STRUCTURE OF TOTTORI PLAIN USING SEISMIC METHOD AND GRAVITY EXPLORATION
Tatsuya NOGUCHI, Ryohei NISHIDA, Takuo OKAMOTO

1400-075 JSP11/08P/D-006 Poster
PROBABILISTIC SEISMIC HAZARD ASSESSMENT IN ALBANIA
Betim MUCO, Anastasia KIRATZI, Shyqyri ALIAJ, Eduard SULSTAROVA, Siasi KOCIU, Veronika PECI, Emmanuel SCORDILIS

1400-076 JSP11/08P/D-007 Poster
CRUSTAL UNDULATIONS IN RELATION TO COASTAL HAZARDS
Shigehisa NAKAMURA

1400-077 JSP11/08P/D-008 Poster
ASSESSMENT OF LANDSLIDE HAZARDS USING GEOPHYSICAL TOMOGRAPHY
Simeon G. KOSTIANEV, P. STEFANOV, P. STOeva

1400-078 JSP11/08P/D-009 Poster
DROUGHT MONITORING USING PALMER INDEX OVER NORTH-EAST OF I. R. IRAN
Sohaila JAVANMARD, Javad BODAGHJAMALI, GholamAli KAMALI, Mohamad Javad AHMADIAN

JSS06a-Posters Tuesday, July 8 PM

EARTH STRUCTURE AND GEODYNAMICS (IASPEI, IAVCEI, IAG, IAGA)
Location: Site D

Presiding Chair: T. Irifune

1400-079 JSS06a/08P/D-001 Poster
SLAB PENETRATION INTO THE DEEP MANTLE LAYERING: 2D VS. 3D
Takashi NAKAGAWA, Paul J. TACKLEY

1400-080 JSS06a/08P/D-002 Poster
PHYSICAL DISPERSION WITH A REFERENCE FREQUENCY OF 2 HZ: BRIDGING BETWEEN SHORT- AND LONG-PERIOD S TRAVEL TIMES
Satoko OKI, Yoshio FUKAO, Masayuki OBAYASHI

1400-081 JSS06a/08P/D-003 Poster
ESTIMATE OF ISOTROPIC AND ANISOTROPIC STRUCTURES OF THE EARTH BY SPECTRAL INVERSION INCORPORATING TOROIDAL-SPHEROIDAL COUPLING
Hitoshi ODA

1400-082 JSS06a/08P/D-004 Poster
INTERNAL STRUCTURES OF THE TERRESTRIAL PLANETS FROM GRAVITY AND TOPOGRAPHY CORRELATIONS: A STUDY OF OBSERVATIONAL CONSTRAINTS ON EVOLUTION MODELS OF PLANETS
Laramie Vance POTTS, C.K. SHUM

1400-083 JSS06a/08P/D-005 Poster
NUMERICAL STUDY OF EFFECTS OF CONTINENTAL PLATES ON MANTLE DYNAMICS
Yasuyuki IWASE, Satoru HONDA

1400-084 JSS06a/08P/D-006 Poster
THERMAL EVOLUTION OF THE EARTH WITH CONVECTION MODEL BASED ON MIXING LENGTH THEORY
Yasuko YAMAGISHI, Takatoshi YANAGISAWA

1400-085 JSS06a/08P/D-007 Poster
DYNAMIC EVOLUTION OF PASSIVE FLOWS DUE TO LARGE-SCALE THERMAL ANOMALIES INSERTED INSTANTANEOUSLY WITHIN THE STATIC LAYERED MANTLE
Takao EGUCHI, Kiyoshi MATSUBARA, Mizuho ISHIDA

1400-086 JSS06a/08P/D-008 Poster
THREE-DIMENSIONAL ELECTRICAL CONDUCTIVITY STRUCTURE BENEATH NORTH PACIFIC
Takao KOYAMA, Hisayoshi SHIMIZU, Hisashi UTADA

1400-087 JSS06a/08P/D-009 Poster
ISOTOPIC EVOLUTION OF THE MANTLE IN NUMERICAL CONVECTION MODELS
Shunxing XIE, Paul TACKLEY

1400-088 JSS06a/08P/D-010 Poster
3D MANTLE P-VELOCITY MODEL BASED ON UNIFORMTETRAHEDRONIZATION OF THE EARTH AND THE NATURALNEIGHBOUR INTERPOLATION METHOD
Jianfeng PAN, Adam M. DZIEWONSKI

1400-089 JSS06a/08P/D-011 Poster
3-D WAVEFORM SENSITIVITY KERNELS FOR SURFACE WAVES
Kazunori YOSHIZAWA

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- 1400-090 JSS06a/08P/D-012 Poster**
REFERENCE 3-D P-VELOCITY MODEL OF THE MANTLE BENEATH EURASIA AND FLANKED OCEANIC MARGINS: THE NEW TECTONIC AND GEODINAMIC VIEW
Valentin GEYKO, T. TSVETKOVA, L. LIVANOVA, K. GEYKO, L. SHUMLANSKAYA, I. BUGAYENKO, L. ZAYETS
- 1400-091 JSS06a/08P/D-013 Poster**
MULTIMODE SURFACE WAVEFORM TOMOGRAPHY OF THE UPPER MANTLE UNDER THE SOUTH PACIFIC SUPERSWELL
Alessia MAGGI, Eric DEBAYLE, Keith PRIESTLEY, Guilhem BARRUOL, Fabrice FONTAINE, Dominique REYMOND
- 1400-092 JSS06a/08P/D-014 Poster**
THERMO-CHEMICAL EVOLUTION OF THE CONVECTING MANTLE AND CORE: IMPORTANCE OF COMPOSITIONAL ANOMALIES IN THE CMB REGION
Takashi NAKAGAWA, Paul J. TACKLEY
- 1400-093 JSS06a/08P/D-015 Poster**
DEEP STRUCTURE OF THE EURASIA – PACIFIC TRANSITION ZONE
Ludmila P. ZABARINSKAYA
- 1400-094 JSS06a/08P/D-016 Poster**
HIGH-RESOLUTION RECEIVER FUNCTION IMAGING OF THE CRUST AND THE MANTLE BENEATH THE JAPAN ISLANDS
Kazuro HIRAHARA, Makiko YAMAUCHI, Takashi TONEGAWA, Takuo SHIBUTANI
- 1400-095 JSS06a/08P/D-017 Poster**
RECEIVER FUNCTION IMAGE OF THE 410 AND 660KM SEISMIC VELOCITY DISCONTINUITIES BENEATH THE JAPAN ISLANDS
Takashi TONEGAWA, Kazuro HIRAHARA, Takuo SHIBUTANI
- 1400-096 JSS06a/08P/D-018 Poster**
LATERAL VARIATIONS OF THE D" DISCONTINUITY BENEATH THE CENTRAL PACIFIC
Megan Sue AVANTS, Thorne LAY, Sara RUSSELL
- 1400-097 JSS06a/08P/D-019 Poster**
WAVEFORM MODELING OF 3D STRUCTURE AT THE BASE OF THE MANTLE USING A COUPLED SEM/NORMAL MODE APPROACH
Akiko TO, Yann CAPDEVILLE
- 1400-098 JSS06a/08P/D-020 Poster**
TO THE QUESTION OF NEW INTERPRETATIONS OF MECHANISMS OF EVOLUTION OF THE TERRESTRIAL STRUCTURE AND SOME CONSEQUENCES THEREFROM
Eugeni Yakovlevich SMIRNOV
- 1400-099 JSS06a/08P/D-021 Poster**
PRINCIPLE OF THE EARTH GRAVITATIONAL ENERGY MINIMIZATION AND THE MECHANISMS OF ITS EMBODIMENT
Vladimir V. KUZNETSOV
- 1400-100 JSS06a/08P/D-022 Poster**
ANALYSIS OF BROADBAND SEISMIC ARRAY FOR THE INVESTIGATION OF THE TOP OF THE EARTH'S OUTER CORE BENEATH THE INDIAN OCEAN
Satoru TANAKA
- 1400-101 JSS06a/08P/D-023 Poster**
SEISMIC OBSERVATION OF NARROW PLUMES IN THE OCEANIC UPPER MANTLE
X. LI, R. KIND, X. YUAN, S.V. SOBOLEV, W. HANKA, D.S. RAMESH, Y. GU, A.M. DZIEWONSKI
- 1400-102 JSS06a/08P/D-024 Poster**
SEISMIC WAVE SPEEDS AND ATTENUATION IN THE UPPER MANTLE INTERPRETED THROUGH LABORATORY MEASUREMENTS
Ulrich FAUL, John D. FITZ GERALD, Ian JACKSON
- 1400-103 JSS06a/08P/D-025 Poster**
STRUCTURE OF THE DISCONTINUITIES BENEATH TONGA SUBDUCTING ZONE AND ITS IMPLICATION
Yuan Ze ZHOU, Shao Xian ZANG
- 1400-104 JSS06a/08P/D-026 Poster**
SYNTHETIC SEISMOGRAM ASSOCIATED WITH AN EARTHQUAKE AT A SUBDUCTION ZONE
Arabinda ROY
- 1400-105 JSS06a/08P/D-027 Poster**
THE MOBILITY OF THE EARTH'S INNER CORE AND PROCESS OF LATITUDE VARIATIONS
Yuri N. AVSYUK
- 1400-106 JSS06a/08P/D-028 Poster**
MANTLE LATERAL VARIATIONS AND ELASTIC DEFORMATIONS
Laurent METIVIER, Marianne GREFF-LEFFITZ, Michel DIAMENT

- 1400-107 JSS06a/08P/D-029 Poster**
PRELIMINARY INVESTIGATION OF INHOMOGENEOUS VISCOUS STRUCTURE OF UPPERMOST MANTLE BENEATH JAPANESE ISLANDS: ITS IMPLICATION TO QUASI-STATIC DEFORMATION OF SUBDUCTION ZONE
Satoru FUJIHARA



G04 Tuesday, July 8 PM

GENERAL THEORY AND METHODOLOGY. MEETING OF IAG SECTION IV

Location: Site C, Room 25

Presiding Chair: B. Heck

- 1410 G04/08P/C25-001**
BIHARMONIC SPLINE WAVELETS VERSUS GENERALIZED MULTI-QUADRICS FOR CONTINUOUS SURFACE REPRESENTATIONS
Rainer E. MAUTZ, Burkhard SCHAFFRIN, Julia KASCHENZ
- 1430 G04/08P/C25-002**
APPLICATION OF WAVELET TRANSFORMATION FOR INTELLIGENT STRUCTURAL HEALTH MONITORING USING MEMS-BASED INERTIAL SENSORS
Naser M. EL-SHEIMY, Aboelmagd NOURELDIN, Mahmoud R. TAHA
- 1450 G04/08P/C25-003**
REMOVE-RESTORE DATA COMPRESSION FOR SATELLITE GRAVITY GRADIOMETRY
Wolfgang KELLER
- 1510 G04/08P/C25-004**
ON THE USE OF ID-FFT TO INVERT GEODETIC INTEGRALS
Ramon V. GARCIA, Castulo A. ALEJO, Anibal I. ARANA, Carlos R. MORAILA
- 1530 G04/08P/C25-005**
APPLICATION OF CLEBSCH-GORDAN COEFFICIENTS AND ISOMORPHIC FRAME TRANSFORMATIONS TO INVERT EARTH'S CHANGING GEOMETRICAL SHAPE FOR CONTINENTAL HYDROLOGICAL LOADING AND SEA LEVEL'S PASSIVE RESPONSE
Geoffrey BLEWITT, Peter J. CLARKE, David LAVALLEE, Konstantin NURUTDINOV

1550 BREAK

G04-Posters Tuesday, July 8 PM

GENERAL THEORY AND METHODOLOGY. MEETING OF IAG SECTION IV

Location: Site D

- 1400-108 G04/08P/D-001 Poster**
PHYSICAL CORRELATION? IT MAY BE DANGEROUS!
Mikhail D. GERASIMENKO, Nikolay V. SHESTAKOV, Minoru KASAHARA
- 1400-109 G04/08P/D-002 Poster**
EXPERIMENTS OF ADAPTIVE FILTERS FOR KINEMATIC GPS POSITIONING APPLIED IN ROAD INFORMATION UPDATING IN GIS
Yuanxi YANG
- 1400-110 G04/08P/D-003 Poster**
THE ANALYTICAL COLLOCATION OF THE ERROR DISTRIBUTION
Shi-Jian ZHOU, Yunlan GUAN, Tieding LU, Deyan ZANG
- 1400-111 G04/08P/D-004 Poster**
ESTIMATION OF VARIANCE COMPONENTS THROUGH A COMBINED ADJUSTMENT OF GPS, GEOID AND LEVELLING DATA
Georgia FOTOPOULOS, Christopher KOTSAKIS, Michael G. SIDERIS
- 1400-112 G04/08P/D-005 Poster**
STOCHASTIC MODELLING ISSUES FOR NETWORK-BASED GPS POSITIONING
Tajul MUSA, Jinling WANG, Chris RIZOS
- 1400-113 G04/08P/D-006 Poster**
PERFORMANCE COMPARISON OF THE BIEU ESTIMATOR WITH THE FLOAT AND FIXED GNSS AMBIGUITY ESTIMATORS
Sandra VERHAGEN, Peter J.G. TEUNISSEN
- 1400-114 G04/08P/D-007 Poster**
GPS BASELINE PROCESSING ASSISTED WITH DAUBECHIES AND SPLINE FUNCTIONS
Jenn-Taur LEE

1400-115	G04/08P/D-008	Poster
USING SECOND-GENERATION WAVELETS ON A SPHERE TO GENERATE A MULTIREOLUTION OF GRAVITY ANOMALIES Christopher JEKELL, Xiaopeng LI		
1400-116	G04/08P/D-009	Poster
PATCHING LOCAL EMPIRICAL COVARIANCE FUNCTION - A PROBLEM IN ALTIMETER DATA PROCESSING Per KNUDSEN		
1400-117	G04/08P/D-010	Poster
COMPUTATION OF GEOPOTENTIAL COEFFICIENTS FROM GRAVITY ANOMALIES ON THE ELLIPSOID Sten CLAESSENS, Will FEATHERSTONE		
1400-118	G04/08P/D-011	Poster
ADVANCED HARMONIC DEVELOPMENT OF THE EARTH TIDE GENERATING POTENTIAL Sergey M. KUDRYAVTSEV		
1400-119	G04/08P/D-012	Poster
GENERALIZED BOUGUER ANOMALY (1): BOUGUER ANOMALY FREE FROM THE BOUGUER REDUCTION DENSITY AND THE FUNDAMENTAL EQUATION OF PHYSICAL GEODESY Kyozo NOZAKI		
1400-120	G04/08P/D-013	Poster
GENERALIZED BOUGUER ANOMALY (2): ON THE SIMULTANEOUS ESTIMATION OF THE BOUGUER REDUCTION DENSITY, GEOID HEIGHT AND BOUGUER ANOMALY UPON THE NORMAL ELLIPSOID SURFACE Kyozo NOZAKI, Koji IWAMOTO, Kenichi OSHITA		
1400-121	G04/08P/D-014	Poster
GLOBAL ISOTROPIC ISOSTATIC RESPONSE FUNCTION IN TERMS OF ZONAL SPHERICAL HARMONICS Hussein A. ABD-ELMOTAAL		
1400-122	G04/08P/D-015	Poster
PARANA BASIN: AN ISOSTATIC MODELING USING A GEOGRAPHIC INFORMATION SYSTEM TO DELINEATE THE MAIN BASEAMENT STRUCTURES Marcia C.L. QUINTAS		
1400-123	G04/08P/D-016	Poster
STOCHASTIC BOUNDARY VALUE SOLUTIONS TO SATELLITE GRAVITY GRADIOMETRY Zhikai LUO, Xueguang CHENG, Jinsheng NING		
1400-124	G04/08P/D-017	Poster
COLLOCATION VERSUS NUMERICAL INTEGRATION IN GOCE DATA ANALYSIS Federica MIGLIACCIO, Mirko REGUZZONI, Fernando SANSONO, CarlChristian TSCHERNING		
1400-125	G04/08P/D-018	Poster
SERIES EXPRESSION FOR NORMAL GRAVITY ABOVE THE REFERENCE ELLIPSOID Ziqing WEI		
1400-126	G04/08P/D-019	Poster
FAR-ZONE CONTRIBUTION IN ELLIPSOIDAL STOKES BOUNDARY-VALUE PROBLEM. Vahid Ebrahimzadeh ARDESTANI		
1400-127	G04/08P/D-020	Poster
GRAVITY EARTH TIDE OBSERVATION IN CHINA SEISMOLOGICAL BUREAU Hui LI, Xiaoquan WANG, Jielin YU, Canfei XING		
1400-128	G04/08P/D-021	Poster
MEAN ORBITAL MOTION OF A CONSTELLATION OF GEODETIC SATELLITES: NEW RESULTS FOR GEODYNAMICS Florent DELEFLIE, Pierre EXERTIER, Gilles MÉTRIS, Philippe BERIO, Olivier LAURAIN		
1400-129	G04/08P/D-022	Poster
MULTISCALE STABILISATION PROCEDURE FOR THE INVERSE DIRICHLET PROBLEM Juraj JANAK, Karol MIKULA, Vladimir MINARECH		
1400-130	G04/08P/D-023	Poster
ON DISCRETE SCHEMES IN DOWNWARD CONTINUATION OF GRAVITY Wenke SUN		
1400-131	G04/08P/D-024	Poster
GLOBAL OPTIMUM SEARCH REGARDING THE PERIODOGRAM BASED ON INTERVAL NEWTON METHOD Rainer E. MAUTZ, Svetozar PETROVIC		
1400-132	G04/08P/D-025	Poster
ON COSMOLOGICAL ORIGIN OF CERTAIN GEODETIC FEATURES OF THE EARTH (I) Akindele Oluwole ADEKUGBE-JOSEPH		

1400-133	G04/08P/D-026	Poster
ON COSMOLOGICAL ORIGIN OF CERTAIN GEODETIC FEATURES OF THE EARTH (II) Akindele Oluwole ADEKUGBE-JOSEPH		
1400-134	G04/08P/D-027	Poster
DATUM TRANSFORMATION SOFTWARE TKY2JGD FROM TOKYO DATUM TO A GEOCENTRIC REFERENCE SYSTEM Mikio TOBITA		
1400-135	G04/08P/D-028	Poster
THE ROLE OF ALGEBRA IN MODERN DAY GEODESY Joseph AWANGE, Erik GRAFAREND		



IAGA

GAI.08-Posters	Tuesday, July 8 PM
CONDUCTIVITY OF CRUST AND MANTLE: RELATION TO GEODYNAMICS (SEDI)	
Location: Site D	

Presiding Chairs: A.G. Jones, Y. Ogawa

1400-136	GAI.08/08P/D-001	Poster
ELECTRICAL CONDUCTIVITY STRUCTURE BENEATH EUROPE ESTIMATED BY GDS METHODS Takao KOYAMA, Hisayoshi SHIMIZU, Hisashi UTADA		
1400-137	GAI.08/08P/D-002	Poster
CONDUCTIVITY AT CRUSTAL AND UPPER MANTLE DEPTHS: GLOBAL, CONTINENTS, EUROPE Oldrich PRAUS, Vaclav CERV, Svetlana KOVACIKOVA, Josef PEK, Jana PECOVA		
1400-138	GAI.08/08P/D-003	Poster
EMTESZ - ELECTROMAGNETIC PROBING OF THE TRANS EUROPEAN SUTURE ZONE Vaclav CERV, Josef PEK, Maxim SMIRNOV, Tomasz ERNST, Vladimir SEMENOV		
1400-139	GAI.08/08P/D-004	Poster
INVERSION MODELS OF THE CONDUCTANCE IN THE THIN SHEET ON THE EASTERN MARGIN OF THE EUROPEAN HERCYNIDES Svetlana KOVACIKOVA		
1400-140	GAI.08/08P/D-005	Poster
MAGNETOTELLURIC SOUNDING IN THE NAIPER COMPLEX, EAST ANTARCTICA Akira YAMAZAKI, Peter DOLINSKY, Minoru FUNAKI, Naoto ISHIKAWA, Yasuo OGAWA		
1400-141	GAI.08/08P/D-006	Poster
THE CONDUCTIVITY STRUCTURE IN THE BACK-ARC REGION BENEATH JILIN AND LIAONING PROVINCE, NE CHINA Ji TANG, Makoto UYESHIMA, Hisashi UTADA, Guoze ZHAO, Masahiro ICHIKI, Minzhi MA, Yuanhao LIU, Xiuqing JIANG		
1400-142	GAI.08/08P/D-007	Poster
MAGNETOTELLURIC OBSERVATIONS IN THE WESTERN PART OF THE NORTH ANATOLIAN FAULT ZONE S. Bulent TANK, Yoshimori HONKURA, Yasuo OGAWA, Naoto OSHIMAN, M. Kemal TUNCER, Masaki MATSUSHIMA, Cengiz CELIK, Elif TOLAK		
1400-143	GAI.08/08P/D-008	Poster
MANTLE CONDUCTIVITY STRUCTURE BELOW THE MARIANA ISLAND ARC Tada-nori GOTO, Nobukazu SEAMA, Masahiro ICHIKI, Kiyoshi BABA, Katrin SCHWALENBERG, Noriko TADA, Hisanori IWAMOTO, Hisashi UTADA, Kiyoshi SUYEHIO, Hiroaki TOH		
1400-144	GAI.08/08P/D-009	Poster
ABOUT THE PHASE DIFFERENCE OF VERTICAL COMPONENT OF SQ FIELD IN THE CENTRAL JAPAN Masahiro ICHIKI, Hisashi UTADA		

GAII.05	Tuesday, July 8 PM
DATA ASSIMILATION TECHNIQUES FOR THE IONOSPHERE-THERMOSPHERE-MAGNETOSPHERE SYSTEM	
Location: Site A, Room 15	

Presiding Chair: L. Scherliess

1400	GAII.05/08P/A15-001
RADIO AND OPTICAL MEASUREMENT OF THE IONOSPHERE WITH OBSERVATIONAL NETWORKS IN JAPAN Akinori SAITO, S. FUKAO, M. YAMAMOTO, K. SHIOKAWA, Y. OTSUKA, M. KUBOTA, T. OGAWA	

WEEK
B
TUE
PM

1430	GAll.05/08P/A15-002	
INCOHERENT SCATTER RADAR DATA AND FUTURE POSSIBILITIES FOR FURTHER EXTENDED REAL-TIME DATA AVAILABILITY Anthony VAN EYKEN, John HOLT		
1500	GAll.05/08P/A15-003	
OPTIMAL INTERPOLATION (OI) ANALYSIS OF HIGH-LATITUDE IONOSPHERIC ELECTRODYNAMIC VARIABLES USING EOF BASES AND MAXIMUM LIKELIHOOD METHOD FOR ERROR COVARIANCE ESTIMATION: JANUARY 9-11, 1997 Tomoko MATSUO, Arthur D. RICHMOND, Gang LU		
1520	GAll.05/08P/A15-004	
RTAMIE STATISTICAL VALIDATION RESULTS Aaron J. RIDLEY, Eric KIHN		
1540	BREAK	
1600	GAll.05/08P/A15-005	
CIRCUM-PAN PACIFIC MAGNETOMETER NETWORK OBSERVATIONS FOR STUDY OF IONOSPHERE-THERMOSPHERE-MAGNETOSPHERE COUPLING SYSTEM Kiyohumi YUMOTO, the CPMN Group		
1630	GAll.05/08P/A15-006	
IONOSPHERIC DATABASE IN EU COST 271 ACTION- EFFECTS OF THE UPPER ATMOSPHERE ON TERRESTRIAL AND EARTH-SPACE COMMUNICATIONS INCLUDING EUROPEAN REAL-TIME IONOSONDE NETWORK Bruno ZOLESI, Ljiljana CANDER		
1700	GAll.05/08P/A15-007	
REAL DATA ASSIMILATION INTO SATELLITE-BASED EMPIRICAL MODELS OF HIGH-LATITUDE IONOSPHERIC ELECTRODYNAMICS FOR EMULATION OF QUASI-SYNOPTIC OBSERVATIONS Vladimir PAPITASHVILI, Daniel WEIMER, Freddy CHRISTIANSEN, Frederick RICH		
1720	GAll.05/08P/A15-008	
IONOSPHERIC DATA FUSION ALGORITHMS FOR SATELLITE BASED IONOSPHERIC SENSORS Robert E. DANIELL, Douglas J. STRICKLAND		
1740	GAll.05/08P/A15-009	
IMPROVEMENTS IN GLOBAL IONOSPHERIC SPECIFICATION USING IONOSPHERIC OCCULTATION MEASUREMENTS Phillip Charles ANDERSON, Paul R. STRAUS, Ludger SCHERLIESS, Robert W. SCHUNK, Jan J. SOJKA		
GAll.06 Tuesday, July 8 PM		
HOW IS THE INNER MAGNETOSPHERE DYNAMICALLY COUPLED TO OTHER REGIONS OF GEOSPACE? Location: Site A, Room 2		
Presiding Chair: I. Daglis		
1400	GAll.06/08P/A02-001	Invited
CRITICAL TEST OF THE DST INDEX AS A MEASURE OF THE STORM INTENSITY Shin-ichi OHTANI, Pontus C. SON BRANDT, Donald G. MITCHELL		
1425	GAll.06/08P/A02-002	Invited
COUPLING BETWEEN THE INNER MAGNETOSPHERE AND THE IONOSPHERE DURING MAGNETIC STORMS AND SUBSTORMS Anthony T.Y. LUI		
1450	GAll.06/08P/A02-003	Invited
THE GLOBAL SCALE OF SAWTOOTH INJECTIONS AND IMPLICATIONS FOR MAGNETOSPHERIC AND IONOSPHERIC COUPLING Geoffrey D. REEVES, Michelle F. THOMSEN, Joe E. BOROVSKY, Michael G. HENDERSON, Ruth M. SKOUG		
1515	GAll.06/08P/A02-004	
DYNAMICS OF FIELD ALIGNED CURRENTS ASSOCIATED WITH GLOBAL QUASI-PERIODIC GEOSYNCHRONOUS PARTICLE INJECTION EVENTS Brian J. ANDERSON, M. THOMSEN, R. SKOUG		
1530	GAll.06/08P/A02-005	
MODELING THE INNER PLASMA SHEET PROTONS AND MAGNETIC FIELD UNDER ENHANCED CONVECTION Chih-Ping WANG, Larry R. LYONS, Margaret W. CHEN, Richard A. WOLF		
1545	GAll.06/08P/A02-006	
MAGNETOSPHERIC CONVECTION IN MHD SIMULATIONS AND THE INFLATION OF THE INNER MAGNETOSPHERE DURING STRONG, STEADY SOLAR WIND DRIVING Ramon E. LOPEZ, Michael J. WILTBERGER		
1600	BREAK	

1615	GAll.06/08P/A02-007	Invited
THE EARTH'S RADIATION BELTS: SOLAR WIND, MAGNETOTAIL AND ATMOSPHERIC CONNECTIONS Daniel N. BAKER		
1640	GAll.06/08P/A02-008	
RELATIVISTIC ELECTRON INCREASE AND LOSS DEPENDING ON OTHER PARTICLE POPULATION, GEOMAGNETIC ACTIVITY AND MAGNETOSPHERIC CONVECTION Takahiro OBARA, Yoshizumi MIYOSHI, Akira MORIOKA		
1655	GAll.06/08P/A02-009	
VARIATIONS OF ENERGETIC ELECTRON FLUXES AND MAGNETIC FIELD IN THE OUTER RADIATION BELT DURING MAGNETIC STORMS Masao NAKAMURA, Hitoshi MATSUOKA, Hideki KOSHIISHI, Kiyokazu KOGA, Haruhisa MATSUMOTO, Tateo GOKA		
1710	GAll.06/08P/A02-010	
MAGNETIC FIELD VARIATIONS AT GEOSYNCHRONOUS ORBIT AND THEIR RELATIONS TO THE RELATIVISTIC ELECTRON DYNAMICS Tsutomu NAGATSUMA, Takahiro OBARA		
1725	GAll.06/08P/A02-011	
VARIATION OF RADIATION BELT ELECTRONS AND O ⁺ IONS OBSERVED BY FAST AT LOW LATITUDES DURING MAGNETIC STORMS K. SEKI, R.C. ELPHIC, M.F. THOMSEN, G.D. REEVES, J.P. MCFADDEN, J.W. BONNELL, E.J. LUND, M. HIRAHARA		
1740	GAll.06/08P/A02-012	Invited
DYNAMICS OF LOWER-ENERGY (30-250 KEV) PROTONS IN THE INNER MAGNETOSPHERE Akira MORIOKA, Yoshizumi MIYOSHI, Yo-ichi MATSUMOTO, Hiroaki MISAWA, Fuminori TSUCHIYA, Takahiro OBARA, Tsutomu NAGATSUMA		

GAIV.03 Tuesday, July 8 PM		
MARS: MAGNETISM AND INTERACTION WITH THE SOLAR WIND Location: Site A, Room 16		
Presiding Chairs: D. Mitchell, K. Maezawa		
1400	GAIV.03/08P/A16-001	
THE MARTIAN MAGNETOSPHERE BASED ON PHOBOS-2 - IMPLICATIONS FOR THE UPCOMING NOZOMI AND MARS EXPRESS MISSIONS Rickard N.A. LUNDIN		
1430	GAIV.03/08P/A16-002	Invited
GLOBAL HYBRID SIMULATIONS OF THE MARTIAN PLASMA ENVIRONMENT Gerard M. CHANTEUR, Ronan MODOLO, Allan P. MATTHEWS		
1500	GAIV.03/08P/A16-003	
ANALYSIS OF THE MARTIAN OBSTACLE AND BOW SHOCK TERMINATOR ANISOTROPY ORIGINS USING PHOBOS 2 AND MGS DATA M.I. VERIGIN, G. KOTOVA, A. REMIZOV, J. SLAVIN, M. ACUNA, T.-L. ZHANG, K. SCHWINGENSCHUH, K. K. SZEGO, M. TATRALLYAY		
1520	BREAK	
1540	GAIV.03/08P/A16-004	
MAGNETIC FIELD INVESTIGATION OF THE VENUS PLASMA ENVIRONMENT: WHAT DO WE EXPECT FROM THE VENUS EXPRESS MISSION Wolfgang BAUMJOHANN, Tielong ZHANG		
1610	GAIV.03/08P/A16-005	
SOLAR WIND CONTROL OF THE VENUSIAN AND MARTIAN IONOTAILS Naoki TERADA, Hiroyuki SHINAGAWA		
1630	GAIV.03/08P/A16-006	
PLASMA EFFECTS OF INTERACTION OF SMALL BODIES WITH SOLAR WIND Valentina G. MORDOVSKAYA		

GAV.05 Tuesday, July 8 PM		
MODELING THE EARTH'S MAGNETIC FIELD ON GLOBAL AND REGIONAL SCALES (SEDI) Location: Site A, Room 11		
Presiding Chairs: K. Whaler, I. Wardinski		
1400	GAV.05/08P/A11-001	Invited
GEOMAGNETIC REFERENCE FIELD MODELS: A GIVEN TOOL TO DESCRIBE THE MAIN FIELD Mioara MANDEA		
1430	GAV.05/08P/A11-002	
BGS CANDIDATE MODELS FOR DGRF1995 AND DGRF2000 AND A SECULAR VARIATION MODEL FOR 2000.0 TO 2005.0 Susan MACMILLAN, Vincent B.F. LESUR, Alan W.P. THOMSON		

- 1445 GAV.05/08P/A11-003**
DGRF CANDIDATES BASED ON OBSERVATIONS FROM OERSTED, CHAMP AND SAC-C
Nils OLSEN, Terence SABAKA
- 1500 GAV.05/08P/A11-004**
GEOMAGNETIC FIELD MODELS FOR EPOCHS 1995 AND 2000
Aude CHAMBODUT, Mioara MANDEA, Benoit LANGLAIS
- 1515 GAV.05/08P/A11-005**
NEW INSIGHTS INTO THE SECULAR VARIATION BETWEEN MAGSAT AND CHAMP/ØRSTED
Ingo WARDINSKI, Richard HOLME
- 1530 GAV.05/08P/A11-006**
SPACE-TIME MODEL FOR OBTAINING CANDIDATE MODELS FOR DGRF 95, AND IGRF SV 00-05
Vadim P. GOLOVKOV, Tatiana N. BONDAR, Svetlana V. YAKOVLEVA

- 1545 BREAK**
- 1620 GAV.05/08P/A11-007**
MODELING THE GEOMAGNETIC SECULAR VARIATION FIELD FOR A TERRITORY WITH A LONG AND IRREGULAR FORM AS VIETNAM
Ha Duyen CHAU, Nguyen Thi KIM THOA, Jean Louis LE MOUEL, Armand GALDEANO
- 1640 GAV.05/08P/A11-008**
ØRSTED/CHAMP-BASED SPHERICAL CAP MODEL FOR SOUTHERN AFRICA
Pieter Benjamin KOTZE
- 1700 GAV.05/08P/A11-009**
SPHERICAL CAP HARMONIC ANALYSIS REVISITED
Erwan THEBAULT, Jean-Jacques SCHOTT, Mioara MANDEA
- 1720 GAV.05/08P/A11-010**
POLAR LITHOSPHERIC FIELD FROM MULTIPLE SATELLITE OBSERVATIONS
Benoit LANGLAIS, Michael PURUCKER, Susanne VENNERSTRØM
- 1740 GAV.05/08P/A11-011**
IMPROVEMENT OF THE ANTARCTIC GEOMAGNETIC REFERENCE MODEL BY USING NEW SETS OF DATA
Luis R. GAYA-PIQUE', Angelo DE SANTIS, Joan Miquel TORTA



HS01
Tuesday, July 8 PM

**EROSION PREDICTION OF UNGAUGED BASINS (PUBS):
INTEGRATING METHODS AND TECHNIQUES (ICCE, ICRS AND
ALL IAHS COMMISSIONS)**
Location: Site C, Room 29

Presiding Chairs: A. Pietroniro, I. Douglas

- 1400 HS01/08P/C29-001**
THE APPLICATION OF AGRICULTURAL NON-POINT SOURCE POLLUTION (AGNPS) MODEL FOR THE SEDIMENT YIELD AND NUTRIENT LOSS PREDICTION IN DUMPUL SUBWATERSHED, CENTRAL OF JAVA, INDONESIA
Sutopo Purwo NUGROHO
- 1420 HS01/08P/C29-002**
EVALUATION OF CREAMS MODEL IN PREDICTING EROSION FROM AGRICULTURAL PLOTS IN BIRJAND, IRAN
Nasser TALEBBEYDOKHTI
- 1440 HS01/08P/C29-003**
PROBLEMS OF MODEL SELECTION IN SEDIMENT YIELD PREDICTION
Shou-shan FAN
- 1500 HS01/08P/C29-004**
PARSIMONIOUS STATISTICAL MODELS FOR FAST ESTIMATION OF THE SUSPENDED SEDIMENTS DISCHARGES IN UNGAUGED BASINS
Ionel HAIDU, Gavril PANDI
- 1520 HS01/08P/C29-005**
DEVELOPMENT OF AN INTERACTIVE EMBEDDABLE GEOGRAPHIC INFORMATION SYSTEM (E-GIS) PROGRAM FOR SOIL EROSION PREDICTION
Ahmad MUNIR, Muhammad Nurdin ABDULLAH

- 1540 BREAK**
- 1600 HS01/08P/C29-006**
SPACEBORNE RADAR INTERFEROMETRY: A PROMISING TOOL FOR EROSION ASSESSMENT IN UNGAUGED BASINS
Filippo CATANI, Paolo FARINA, Sandro MORETTI, Giovanni NICO
- 1620 HS01/08P/C29-007**
ASSESSING THE EFFECT OF LAND USE CHANGES ON RUNOFF IN THE TA-CHOU BASIN
Pao Shan YU, Yu Chi WANG, Chun Chao KUO

- 1640 HS01/08P/C29-008**
RUNOFF, SEDIMENT YIELD AND NUTRIENTS LOSS MODELING USING REMOTE SENSING AND ARCVIEW SWAT2000 ON AGRICULTURAL WATERSHED OF EASTERN INDIA
Vinay Kumar PANDEY
- 1700 HS01/08P/C29-009**
LAND USE SCENARIO BASED GIS-MODEL FOR REDUCING SEDIMENTATION RATE AT BILI-BILI DAM INDONESIA
Muhammad Nurdin ABDULLAH, Ahmad MUNIR, Syamsul Arifin ILYAS

HS02
Tuesday, July 8 PM

**WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK
ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR,
ICSW, ICWQ)**
Location: Site C, Room 24

Presiding Chairs: D. Rosbjerg

- 1400 HS02/08P/C24-001**
CAUSAL RELATIONSHIPS BETWEEN LAND USE CHANGES AND WATER QUALITY – A CASE STUDY FROM NIAH CATCHMENT, SARAWAK, EAST MALAYSIA
Tina Svan HANSEN
- 1415 HS02/08P/C24-002**
CHEMICAL CHARACTERISTICS OF SURFACE WATER IN ORAMIRIUKWA AND ONUKWU RIVERS AZARAEGBELU, OWERRI
Ibe Kasimir MADUABUCHI, A.I. EGBUJOR
- 1430 HS02/08P/C24-003**
MODELING NITROGEN DYNAMICS IN AN AGRICULTURAL-FORESTED CATCHMENT
Baolin SU, So KAZAMA, Minjiao LU, Masaki SAWAMOTO
- 1445 HS02/08P/C24-004**
ASSESSMENT OF GROUNDWATER QUALITY AND CLIMATIC WATER BALANCE STUDIES IN PAGERU RIVER BASIN, ANDHRA PRADESH, INDIA
Shakeel AHMED
- 1500 HS02/08P/C24-005**
EFFECT OF IRRIGATION ON GROUND WATER CHEMISTRY IN LOWER CHAMBAL COMMAND AREA, MADHYA PRADESH, INDIA
L.P. CHOURASIA
- 1515 HS02/08P/C24-006**
THE ORIGIN OF WATER SALINITY OF THE ANNABA COAST (N.E ALGERIA)
Larbi DJABRI, R. LAOUAR, A. HANI, J. MANIA, J. MUDRY
- 1530 HS02/08P/C24-007**
LOWER NIGER DREDGING AND CUMULATIVE ENVIRONMENTAL CHANGE
Shakirudeen Sule ODUNUGA, Tejuoso OLUFEMI , Fasona JOHNSON
- 1545 BREAK**
- 1615 HS02/08P/C24-008**
IDENTIFYING HUMAN INDUCED PRESSURES AND THEIR IMPACT ON WATER RESOURCES - THE ASSESSMENT OF THE HYDROLOGICAL QUALITY IN RIVER BASINS
Michael EISELE, Andreas STEINBRICH, Christian LEIBUNDGUT
- 1630 HS02/08P/C24-009**
ESTIMATING LAND COVER CHANGES AND ASSOCIATED ENVIRONMENTAL IMPACTS ON WETLANDS, BY COUPLING REMOTE SENSING AND HYDROLOGIC MODELING
Ierotheos Z. ZACHARIAS, Elias DIMITRIOU, Theodoros KOUSSOURIS
- 1645 HS02/08P/C24-010**
A COMPARATIVE STUDY ON FLOW GENERATION MODELS FOR WATER RESOURCE PLANNING
Seung Yup RIEU, Young-Oh KIM, Dong Ryul LEE
- 1700 HS02/08P/C24-011**
RIVER FLOW PREDICTION: A HYBRID NEURAL NETWORK APPROACH
A.W. JAYAWARDENA, T.M.K.G. FERNANDO
- 1715 HS02/08P/C24-012**
LONG-TERM ESTIMATION OF EVAPOTRANSPIRATION FROM A TROPICAL RAIN FOREST IN PENINSULAR MALAYSIA
Makoto TANI, Abdul Rahim Nik, Yukio YASUDA, Shoji NOGUCHI, Siti Aisah SHAMSUDIN, Mohd Md SAHAT, Satoru TAKANASHI
- 1730 HS02/08P/C24-013**
EVAPORATION OF INTERCEPTED PRECIPITATION IN UNLOGGED AND LOGGED FOREST AREAS OF CENTRAL KALIMANTAN, INDONESIA
Chay ASDAK

1745 DISCUSSION

WEEK
B
TUE
PM

HS03 Tuesday, July 8 PM

WEATHER RADAR INFORMATION AND DISTRIBUTED HYDROLOGICAL MODELING (ICSW)

Location: Site C, Room 26

Presiding Chair: Y. Tachikawa

APPLICATION OF DISTRIBUTED HYDROLOGICAL MODELS IN WATERSHED MANAGEMENT

1400 HS03/08P/C26-001

OPERATIONAL DEPLOYMENT OF A PHYSICS-BASED DISTRIBUTED RAINFALL-RUNOFF MODEL FOR FLOOD FORECASTING IN TAIWAN
Baxter E. VIEUX, Jean E. VIEUX, Chiarong CHEN, Keneth W. HOWARD

1415 HS03/08P/C26-002

APPLYING RADAR RAINFALL DATA IN BASIN HYDROLOGIC MODELING
Oscar KALINGA, Thian Yew GAN, Jiancang Xie

1430 HS03/08P/C26-003

A DISTRIBUTED HYDROLOGICAL MODELING APPLIED TO HEIHE MOUNTAINOUS BASIN IN WESTERN CHINA
Jun XIA, Wang GANGSHENG, Tan GE

1445 HS03/08P/C26-004

DEVELOPMENT OF DISTRIBUTED RED SOIL RUNOFF MODEL USING RADAR DATA
Yutaka ICHIKAWA, Katsuhiko NAKAGAWA, Kazuki FUJIWARA, Michiharu SHIIBA, Shuichi IKEBUCHI

1500 HS03/08P/C26-005

A FLASH FLOOD FORECAST MODEL FOR THE THREE GORGES BASIN USING GIS AND REMOTE SENSING DATA
Yangbo CHEN, Jiaxi HU, Jie YU

1515 HS03/08P/C26-006

PERFORMANCE ASSESSMENT OF BTOPMC MODEL IN NEPALESE DRAINAGE BASIN
Nawa Raj PRADHAN, Raghunath JHA

1530 BREAK

1545 HS03/08P/C26-007

COUPLING OF MODFLOW AND WATFLOOD IN HYDROLOGICAL MODELING OF A SMALL WATERSHED
Sayed-Farhad MOUSAVI, Nicholas KOUWEN

1600 HS03/08P/C26-008

PREDICTION OF EVAPOTRANSPIRATION AND STREAM FLOW WITH A DISTRIBUTED MODEL OVER THE LARGE WUDING RIVER BASIN
Xingguo MO, Suxia LIU, Zhonghui LIN, Weimin ZHAO

1615 HS03/08P/C26-009

A CATCHMENT SURFACE RUNOFF SIMULATION FOR LAND SURFACE MODEL STUDY
Shufen SUN, Weiping DENG

1630 HS03/08P/C26-010

APPROACHING REALISTIC SOIL MOISTURE STATUS WITH AN IMPROVED MESO-SCALE NUMERICAL WEATHER PREDICTION MODEL
Suxia LIU, Lance LESLIE, Milton SPEER, Rees BUNKER, Russel MORISON

HW08 Tuesday, July 8 PM

PARAMETER ESTIMATION TECHNIQUES (IAHS/WMO WORKING GROUP ON GEWEX WITH THE SUPPORT OF ICSW AND ICASVR)

Location: Site C, Room 28

Presiding Chairs: S. Franks, G. Leavesley

UNCERTAINTIES IN MODELING AND INFORMATION IN DATA

1400 HW08/08P/C28-001 Invited

TEASING OUT UNCERTAINTIES IN THE MODELLING PROCESS
Keith J. BEVEN, Jim FREER

1430 HW08/08P/C28-002 Invited

CONFRONTING UNCERTAINTY IN ENVIRONMENTAL MODELLING
Dmitri KAVETSKI, Stewart W. FRANKS

1500 HW08/08P/C28-003

PROBABILISTIC STREAMFLOW PREDICTIONS IN UNGAUGED WATERSHEDS
Jasper A. VRUGT, Thorsten WAGENER, Hoshin V. GUPTA, Willem BOUTEN, Soroosh SOROOSHIAN

1520 HW08/08P/C28-004 Invited

IDENTIFYING HYDROLOGIC MODEL PARAMETERS FROM INTRA-ANNUAL STREAMFLOW ANALYSES
Eylon SHAMIR, Eylon SHAMIR, Efrat MORIN, Bisher IMAM, Hoshin VGUPTA, Soroosh SOROOSHIAN

1540 BREAK

1600 HW08/08P/C28-005 Invited

CONSTRAINING PARAMETER VALUES WITH SOFT DATA: AN EXPERIMENTALIST'S VIEW OF PARAMETER ESTIMATION
Jeffrey J. MCDONNELL, Kellie B. VACHE, Jan SEIBERT



MI03 Tuesday, July 8 PM

CHEMISTRY-CLIMATE INTERACTIONS (COVERS OZONE INTERACTIONS) (ICACGP, IOC, ICCI)

Location: Site B, Room 18

Presiding Chair: H. Graf

1400 MI03/08P/B18-001

MODELLING TROPOSPHERIC AND STRATOSPHERIC CHEMISTRY IN THE UM
Peter BRAESICKE, Guang ZENG, John PYLE

1420 MI03/08P/B18-002

CAN HETEROGENEOUS CHEMISTRY ON CLOUDS INCREASE THE OXIDIZING ABILITY OF THE TROPOSPHERE
Azadeh TABAZADEH, Robert J. YOKELSON, Hanwant B. SINGH

1440 MI03/08P/B18-003

SIMULATING ANTARCTIC STRATOSPHERIC OZONE LOSS IN A GCM: VARIABILITY
Stephen R. BEAGLEY, Jean DE GRANDPRE, Victor I. FOMICHEV, John C. MCCONNELL, Theodore G. SHEPHERD

1500 MI03/08P/B18-004

QUANTIFYING THE TROPOPAUSE MIXING BARRIER IN THE CANADIAN MIDDLE ATMOSPHERE MODEL
David SANKEY, Theodore G. SHEPHERD

1520 MI03/08P/B18-005

THE SEPARATE CLIMATE EFFECTS OF THE STRATOSPHERIC AND THE TROPOSPHERIC CO₂ INCREASE AS SIMULATED WITH THE MA-ECHAM4 MODEL
Michael SIGMOND, Peter Christiaan SIEGMUND, Hennie KELDER, Elisa MANZINI

1540 BREAK

1610 MI03/08P/B18-006

SIMULATION OF FUTURE DISTRIBUTIONS OF TROPOSPHERIC OZONE AND SULFATE AEROSOL: IMPACTS OF EMISSION CHANGE AND CLIMATE CHANGE
Kengo SUDO, Masaaki TAKAHASHI, Toru NOZAWA, Hiroshi KANZAWA, Hajime AKIMOTO

1630 MI03/08P/B18-007

CHANGES IN THE STRATOSPHERIC OZONE EQUILIBRIUM CAUSED BY GREENHOUSE GAS INCREASES BETWEEN 1979 AND 2060
Michel S. BOURQUI, Chris P. TAYLOR, Keith P. SHINE

MI09 Tuesday, July 8 PM

NEW INSTRUMENTS AND TECHNOLOGY, ADVANCES IN REMOTE SENSING

Location: Site B, Room 22

Convener: H. Richner

1400 MI09/08P/B22-001

DEVELOPMENT OF A 400 MHZ-BAND WIND PROFILER RADAR AT OKINAWA IN THE WESTERN PACIFIC SUBTROPICS
Tatsuhiko ADACHI

1420 MI09/08P/B22-002

VERTICAL WIND OBSERVATIONS USING DOPPLER SPECTRA OF VERTICALLY POINTING W-BAND RADAR
Yuichi OHNO

1440 MI09/08P/B22-003

MST RADAR VOLUME-IMAGING OF THE LOWER ATMOSPHERE
Richard M. WORTHINGTON

1500 MI09/08P/B22-004

ANALYSIS OF TURBULENCE STRUCTURE, WIND, AND WIND SHEAR USING SPACED ANTENNA OBSERVATIONS
Gernot HASSENPLUG, Mamoru YAMAMOTO, Shoichiro FUKAO

1520 INTRODUCTION TO POSTERS

1530 BREAK

1600 MI09/08P/B22-005
CONTINUOUS MONITORING OF HUMIDITY PROFILES WITH THE WIND
PROFILER RADAR-RASS OBSERVATION
Jun-ichi FURUMOTO, Kenji KURIMOTO, Satoshi IWAI, Toshitaka TSUDA

1620 MI09/08P/B22-006
DIFFERENTIAL ABSORPTION LIDAR SYSTEM FOR VERTICAL PROFILING OF
ATMOSPHERIC OZONE
Devara China Sattilingam PANUGANTI, Raj Ernest P., Pandithurai G. , Dani K.
KUNDAN

1640 MI09/08P/B22-007
HIGH-SENSITIVE INSTRUMENT FOR IN-SITU MEASURING ATMOSPHERIC
NO2 AND SO2
Yutaka MATSUMI, Hiroyuki SHIGEMORI, Kenshi TAKAHASHI

1700 MI09/08P/B22-008
AUTOMATIC TWILIGHT PHOTOMETER FOR MONITORING METEOR
SHOWERS AND VERTICAL PROFILES OF AEROSOLS
D.B. JADHAV, B. PADMAKUMARI, D.R. JADHAV, H.K. TRIMBAKE, P.R.
PATIL

MI09-Posters Tuesday, July 8 PM

**NEW INSTRUMENTS AND TECHNOLOGY, ADVANCES IN
REMOTE SENSING**
Location: Site D

1400-154 MI09/08P/D-001 Poster
A LOWER TROPOSPHERE RADAR: L-BAND ACTIVE PHASED-ARRAY TYPE
WIND PROFILER WITH RASS
Hiroyuki HASHIGUCHI, Shoichiro FUKAO, Toshio WAKAYAMA, Shinichiro
WATANABE

1400-155 MI09/08P/D-002 Poster
THE EQUATORIAL ATMOSPHERE RADAR (EAR): SYSTEM DESCRIPTION AND
INITIAL RESULTS
Hiroyuki HASHIGUCHI, Shoichiro FUKAO, Mamoru YAMAMOTO, Toshitaka
TSUDA, Takuji NAKAMURA, Masayuki K. YAMAMOTO, Toru SATO, Masahiro
HAGIO, Yoshiyuki YABUGAKI, Munir MUZIRWAN, Mahdi KARTASASMITA

1400-156 MI09/08P/D-003 Poster
VALIDATION OF THE WINDOW EMISSIVITY ESTIMATES FROM MULTI-
SPECTRAL THERMAL INFRARED DATA AND ITS POTENTIAL EFFECT TO
EARTH RADIATION BUDGET
Kenta OGAWA, Thomas SCHMUGGE, Frederic JACOB, Andrew N. FRENCH

MC02 Tuesday, July 8 PM

TYPHOONS IN ASIA: THEIR UNIQUE FEATURES (ICDM)
Location: Site B, Room 20

Presiding Chairs: C.-C. Wu, S. Ishijima

EFFECTS OF ENVIRONMENT, TYPHOON MODELING

1400 MC02/08P/B20-001
INTERACTION OF POTENTIAL VORTICITY ANOMALIES IN EXTRATROPICAL
TRANSITION OF TYPHOON BART (1999)
Jun YOSHINO, Hirohiko ISHIKAWA, Hiromasa UEDA

1420 MC02/08P/B20-002
SEA SURFACE COOLING WITH THE PASSAGE OF TYPHOONS IN THE
NORTHWESTERN PACIFIC OCEAN
Chul-hoon HONG

1440 MC02/08P/B20-003
A CLIMATOLOGICAL STUDY OF BINARY TROPICAL CYCLONES IN THE
WESTERN NORTH PACIFIC BASIN
Suguru ISHIJIMA

1500 MC02/08P/B20-004
A NEW LOOK AT THE BINARY INTERACTION: POTENTIAL VORTICITY
DIAGNOSIS OF THE UNUSUAL SOUTHWARD MOTION OF TROPICAL STORM
BOPHA (2000) AND ITS INTERACTION WITH SUPERTYPHOON SAOMAI (2000)
Chun-Chieh WU, Treng-Shi HUANG, Wei-Peng HUANG, Kun-Hsuan CHOU

1520 BREAK

1550 MC02/08P/B20-005
ASSIMILATION AND PREDICTION OF TROPICAL CYCLONES. PART I:
PERFORMANCE IN THE NORTHWEST PACIFIC
Seon K. PARK, Lance M. LESLIE

1610 MC02/08P/B20-006
IMPROVING TROPICAL CYCLONE INITIALIZATION WITH APPLICATION OF
QUIKSCAT DATA
Chi-Sann E. LIOU, Yi JIN

1630 MC02/08P/B20-007
A PILOT STUDY ON THE SURVEILLANCE OF TYPHOONS NEAR TAIWAN
USING GPS DROPSONDE
Chun-Chieh WU, Po-Hsiung LIN, Tien-Chiang YEH

MC05 Tuesday, July 8 PM

MIDDLE ATMOSPHERE SCIENCE (ICMA)
Location: Site A, Room 9

Presiding Chair: M. Baldwin

1400 MC05/08P/A09-001 Invited
BALLOON-BORNE OBSERVATIONS OF OZONE AND WATER VAPOR IN THE
TROPICAL TROPOPAUSE LAYER - RESULTS FROM SOWER CAMPAIGNS
Masato SHIOTANI

1430 MC05/08P/A09-002
HOW DO AIR AND HUMIDITY ENTER THE STRATOSPHERE?
Andrew GETTELMAN, Tim J. DUNKERTON

1450 MC05/08P/A09-003
OBSERVING THE TROPOPAUSE TRANSITION LAYER IN THE TROPICS WITH
THE HIGH RESOLUTION DYNAMICS LIMB SOUNDER (HIRDLS) ON NASA'S
AURA SPACECRAFT
John C. GILLE, Alyn LAMBERT, Douglas KINNISON, Aaron LEE, Kenneth
STONE, John BARNETT

1510 MC05/08P/A09-004
INTRASEASONAL VARIATIONS OF HUMIDITY AND THIN CIRRUS CLOUDS IN
THE TROPICAL UPPER TROPOSPHERE
Nawo EGUCHI, Masato SHIOTANI

1530 MC05/08P/A09-005
SEASONAL AND INTERANNUAL VARIATIONS OF THE TROPOPAUSE
TEMPERATURE AND HEIGHT OVER INDONESIA
Noriko OKAMOTO, Manabu D. YAMANAKA, Shin-Ya OGINO, Hiroyuki
HASHIGUCHI, Noriyuki NISHI, Tien SRIBIMAWATI

1550 BREAK

1620 MC05/08P/A09-006
POSSIBLE CROSS-TROPOPAUSE TRANSPORT PROCESSES IN THE
TROPICS OBSERVED BY THE EQUATORIAL ATMOSPHERE RADAR IN
INDONESIA
Shoichiro FUKAO, Masatomo FUJIWARA, Masayuki K. YAMAMOTO, Takeshi
HORINOUCI, Hiroyuki HASHIGUCHI

1640 MC05/08P/A09-007
OBSERVATIONS IN THE TROPICAL TROPOPAUSE REGION WITH THE
EQUATORIAL ATMOSPHERE RADAR
Masayuki YAMAMOTO, Masayuki OYAMATSU, Takeshi HORINOUCI,
Masatomo FUJWARA, Hiroyuki HASHIGUCHI, Mamoru YAMAMOTO, Shoichiro
FUKAO, Manabu YAMANAKA

1700 MC05/08P/A09-008
WATER VAPOR AND AEROSOL EXTINCTION VARIATIONS ASSOCIATED WITH
THE EQUATORIAL KELVIN WAVE IN THE TROPICAL TROPOPAUSE LAYER AS
OBSERVED IN HALOE DATA
Masanori NIWANO

1720 MC05/08P/A09-009
TROPOSPHERE- STRATOSPHERE INTERACTION DURING A TROPICAL
CYCLONE PASSAGE OVER INDIA
Mrudula G., Mohan Kumar K.

1740 MC05/08P/A09-010
VHF RADAR OBSERVATIONS OF TROPICAL TROPOPAUSE AND ITS
TEMPORAL VARIABILITY
Siddarth Shankar DAS, Mrudula G, Pramod Kumar KHANDAPAL, A.R. JAIN

MC08-Posters Tuesday, July 8 PM

**FUTURE CHANGES IN GLOBAL AND REGIONAL CLIMATE
(ICDCI)**
Location: Site D

1400-157 MC08/08P/D-001 Poster
CHANGES IN EXTREME TEMPERATURES IN NORTHERN CHINA SINCE 1951
AND ITS RELATIONSHIP TO REGIONAL WARMING
Zhuguo MA, Congbin FU, Xiaobo REN

1400-158 MC08/08P/D-002 Poster
FLUX ADJUSTED COUPLED MODELS FOR CLIMATE CHANGE EXPERIMENTS
Nicholas E. FAULL, David STAINFORTH, Myles ALLEN, Jamie
KETTLEBOROUGH, James MURPHY

1400-159 MC08/08P/D-003 Poster
WEATHER AND FOREST FIRES NEAR YAKUTSK (EAST SIBERIA) IN 2002
Hiroshi HAYASAKA, Sergey TASHCHILIN, Abushenko NIKOLAY, Keiji KIMURA

**WEEK
B
TUE
PM**

MC12 Tuesday, July 8 PM**THE CLIMATE OF THE HOLOCENE (ICCI)**

Location: Site B, Room 19

Presiding Chair: P. Jones

1415 MC12/08P/B19-001 Invited
THE MEDIEVAL COOL PERIOD AND THE LITTLE WARM AGE IN THE CENTRAL TROPICAL PACIFIC? FOSSIL CORAL CLIMATE RECORDS OF THE LAST MILLENNIUM

Kim M. COBB, Chris CHARLES, Hai Cheng , R.Lawrence EDWARDS

1445 MC12/08P/B19-002
TOWARD RECONCILING CLIMATE CHANGE RECONSTRUCTIONS FROM BOREHOLE TEMPERATURES AND PROXY DATA: THE ROLE OF SNOW
Marshall Grant BARTLETT, David S. CHAPMAN, Rob N. HARRIS

1500 MC12/08P/B19-003
PATTERNS OF NORTHERN EMISPHERE MID-LATITUDE TEMPERATURE VARIABILITY IN A 500-YEAR CLIMATE SIMULATION WITH VARIABLE RADIATIVE FORCING

Piero LIONELLO, Simona DE ZOLT, Eduardo ZORITA

1515 MC12/08P/B19-004
CLIMATE CHANGES DURING THE PAST MILLENNIUM
Michael E. MANN, Scott RUTHERFORD, Gavin A. SCHMIDT, Drew T. SHINDELL

1535 MC12/08P/B19-005
A RECONSTRUCTION OF THE GLOBAL TEMPERATURE OVER THE LAST 10 THOUSAND YEARS
Jorge Sesma SANCHEZ

1550 BREAK

1610 MC12/08P/B19-006
TOWARDS AN ABSOLUTE CHRONOLOGY FOR THE MARINE ENVIRONMENT: THE DEVELOPMENT OF A 1000 YEAR RECORD FROM ARCTICA ISLANDICA
Graham T.W. FORSYTHE, James SCOURSE, Ian HARRIS, Chris A. RICHARDSON, Phil JONES, Keith BRIFFA, Jan HEINEMEIER

1630 MC12/08P/B19-007
YEAR-BY-YEAR RECONSTRUCTION OF CLIMATE IN THE CENTRAL KOLA PENINSULA (NORTH-WESTERN RUSSIA) SINCE AD 862 BASED ON DENDROLOGICAL AND ISOTOPE DATA
Yury M. KONONOV, Tatjana BOETTGER , Michael FRIEDRICH , Konstantin V. KREMENETSKY

**SS04 Tuesday, July 8 PM****STRONG GROUND MOTION, EARTHQUAKE HAZARD AND RISK**

Location: Site A, Room 3

Presiding Chairs: D. Zhifeng, K. Kudo, W. Zhongliang

1400 SS04/08P/A03-001
TIME DEPENDENT SEISMIC HAZARD ASSESSMENT FOR THE TAIWAN REGION ON THE BASIS OF PROGNOSTIC ZONATION OF FUTURE EARTHQUAKES AND RECENT STRONG-MOTION DATA

Vladimir Yu. SOKOLOV, Arkady OVCHARENKO, Chin-Hsiung LOH, Kuo-Liang WEN

1415 SS04/08P/A03-002
EVALUATION OF SEISMIC HAZARD AND STRONG GROUND MOTIONS FOR TASHKENT CITY

Bakhtiar S. NURTAEV, Lylya PLOTNIKOVA

1430 SS04/08P/A03-003
PROBABILISTIC SEISMIC HAZARD ASSESSMENT IN NORTHERN ALGERIA, USING SPATIALLY-SMOOTHED SEISMICITY. PART I :SEISMIC HAZARD MAPS IN TERMS OF PGA

Mohamed HAMDACHE, Jose Anttonio PELAEZ MONTILLA, Carlos LOPEZ CASADO

1445 SS04/08P/A03-004
SEISMIC HAZARD ASSESSMENT IN THE KUTCH REGION, INDIA
Bal Krishna RASTOGI, Prantik MANDAL, Mark PETERSEN

1500 SS04/08P/A03-005
A NEW SEISMIC HAZARD MAP FOR IRAN
Mehdi ZARE, Mehdi ZARE, Paivi MANTYNIEMI, Andrzej KIJKO, Mayshree BEJAICHUND

1515 SS04/08P/A03-006
GIS BASED SEISMIC HAZARD ZONATION IN THE SIKKIM HIMALAYA
Sankar Kumar NATH, Probal SENGUPTA, Indrajit PAL, Debasis ROY, Jnana RKAYAL

1530 SS04/08P/A03-007
A SEISMIC HAZARD AND RISK ASSESSMENT FOR THE TULBAGH AREA IN SOUTH AFRICA: APPLICATION OF THE PARAMETRIC-HISTORIC PROCEDURE
Andrzej KIJKO, Gerhard GRAHAM, Mayshree BEJAICHUND

1545 SS04/08P/A03-008
EVALUATION OF SEISMIC RISK FOR HYDROPOWER DAM DESIGNS IN VIETNAM
Trinh Trong PHAN

1600 BREAK

1615 SS04/08P/A03-009
A NEW APPROACH FOR RAPID SEISMIC RISK ASSESSMENT
Serguei BALASSANIAN, Yuri BALASNYAN

1630 SS04/08P/A03-010
SOME PROBLEMS OF SEISMIC ZONING OF THE NORTHEASTERN SAKHALIN ISLAND, RUSSIA AND ADJACENT SHELF
Alexey I. IVASHCHENKO, Kim Choon OUN, Tatiana NAGORNYKH, Michael STRELTSOV

1645 SS04/08P/A03-011
GPS APPLICATION FOR SEISMIC ZONING
Mikhail T. PRILEPIN

1700 SS04/08P/A03-012
SHAKE MAP PREDICTION BASED ON EMPIRICAL SITE CORRECTION MODEL
Kuo-Liang WEN, Wen-Yu JEAN, Yu-Wen CHANG, Chih-Kuo WANG

1715 SS04/08P/A03-013
NONLINEAR SEISMOLOGY:THE QUANTITATIVE DATA
Gheorghe MARMUREANU, Carmen Ortansa CIOFLAN, Florin Stefan BALAN, Bogdan Felix APOSTOL, Alexandru MARMUREANU

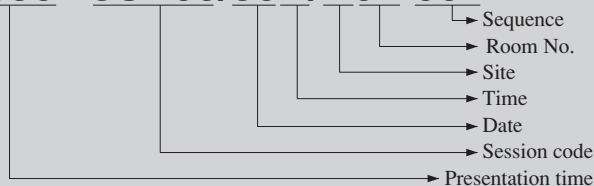
1730 SS04/08P/A03-014
THE CANADIAN URBAN SEISMOLOGY PROGRAM DEMONSTRATION
STRONG MOTION SEISMOGRAPH NETWORK IN VANCOUVER, BRITISH COLUMBIA
Garry ROGERS

1745 SS04/08P/A03-015
SELF-CENTRING ASEISMIC SYSTEM WITH DOUBLE NATURAL FREQUENCY
Federico, BARTOLOZZI

Paper Numbers

Oral Presentation

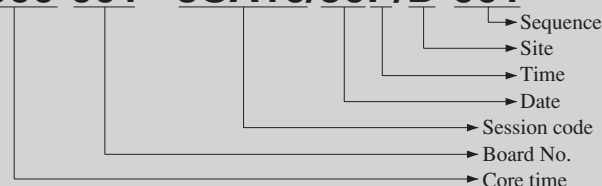
0830 JSV03/30A/A01-001



Example: 0830 JSV03/30A/A01-001 = Presentation begins at 8:30, JSV03, June 30, presentation in the morning (AM), Site A, Room 1, first paper in that session

Poster Presentation

1600-001 JSA10/30P/D-001



Example: 1600-001 JSA10/30P/D-001 = Core time begins at 16:00, Poster Board No.: 001, JSA10, June 30, core time in the afternoon (PM), Site D, first paper in that session

Wednesday, July 9 AM



UNION LECTURE FOR U6 Wednesday, July 9 AM

THE GRAVITY FIELD OF THE EARTH DETERMINED BY NEW SATELLITE MISSIONS

Location: Site D, Room 32

0800 INTRODUCTION

0810 UL6/09A/D32-001

THE GRAVITY FIELD OF THE EARTH DETERMINED BY NEW SATELLITE MISSIONS
Christoph REIGBER

U6 Wednesday, July 9 AM

NEW SENSORS OF OUR PLANET. WHAT IS POSSIBLE

Location: Site D, Room 32

Conveners: C.K. Shum, C. Wilson

0910 U6/09A/D32-001

Invited

HIGH-RESOLUTION GRAVITY MAPPING: THE NEXT GENERATION OF SENSORS
Christopher JEKELI

0935 U6/09A/D32-002

Invited

STUDIES OF EARTH'S CORE AND MANTLE USING SATELLITE MAGNETIC FIELD MEASUREMENTS
Catherine G. CONSTABLE

1000 U6/09A/D32-003

Invited

DENSE GPS ARRAY: NEW VERSATILE SENSOR OF THE EARTH
Kosuke HEKI

1025 BREAK

1050 U6/09A/D32-004

Invited

4-D IMAGING OF THE EARTH'S SUBSURFACE USING INSAR: MOVING BEYOND THE SINGLE INTERFEROGRAM
Howard A. ZEBKER

1115 U6/09A/D32-005

Invited

REMOTE SENSING OF SOIL MOISTURE AND SOIL WATER STORAGE
James S. FAMIGLIETTI

1140 U6/09A/D32-006

Invited

WIDE-SWATH ALTIMETRIC MEASUREMENT OF OCEAN SURFACE TOPOGRAPHY
Lee-Lueng FU, Ernesto RODRIGUEZ

1205 U6/09A/D32-007

Invited

GLOBAL NAVIGATION SATELLITE SOUNDING (GNSS) OF THE ATMOSPHERE AND GNSS ALTIMETRY: PROSPECTS FOR GEOSCIENCES
Thomas P. YUNCK



INTER-ASSOCIATION

JSG02-Posters

Wednesday, July 9 AM

INTERDISCIPLINARY EARTH SCIENCE FROM IMPROVED GRAVITY FIELD MODELING (IAG, IAHS, IAPSO, IASPEI)

Location: Site D

Conveners: G. Balmino, V. Zlotnicki

0830-001 JSG02/09A/D-001

Poster

A DIGITAL METHOD FOR AUTOMATIC 3-D GRAVITY INVERSION OF DENSITY INTERFACES USING VARIABLE DENSITY
Chakravarthi VISHNUHOTLA, Harinarayana TIRUMALACHETTY

0830-002 JSG02/09A/D-002

Poster

OVERVIEW OF THE GRAVITY FIELD OF ANTARCTICA
Muriel LLUBES, Nicolas FLORSCH, Benoit LEGRESY, Jean-Michel LEMOINE, Frederique REMY

0830-003 JSG02/09A/D-003

Poster

GEOID AND OCEAN CIRCULATION IN THE NORTH ATLANTIC (GOCINA)
Per KNUDSEN, Rene FORSBERG, Ole B. ANDERSEN, Dag SOLHEIM, Roger HIPKIN, Keith HAINES, Johnny JOHANNESSEN, Fabrice HERNANDEZ

0830-004 JSG02/09A/D-004

Poster

GRAVITY MODEL DEVELOPMENT FOR ICESAT PRECISION ORBIT DETERMINATION
Hyung-Jin RIM, John C. RIES, Sungpil YOON, Charles E. WEBB, Srinivas BETTADPUR, Bob E. SCHUTZ

0830-005 JSG02/09A/D-005

Poster

ON THE COMBINATION OF ALTIMETRY AND SATELLITE DERIVED GRAVITY FIELD MODELS
Wolfgang BOSCH

0830-006 JSG02/09A/D-006

Poster

3D ASPHERICAL EARTH'S MODEL AND 3D ATMOSPHERIC LOADING FOR THE NEW GRAVITY MISSIONS
Pascal GEGOUT, Hilaire LEGROS, Jacques HINDERER

0830-007 JSG02/09A/D-007

Poster

TEMPORAL GRAVITY FIELD RECOVERY FROM CHAMP AND GRACE
Shin-Chan HAN, C.K. SHUM, C. JEKELI

0830-008 JSG02/09A/D-008

Poster

REPEATED HIGH-PRECISION GRAVITY AND GPS MEASUREMENT TECHNIQUES
Paul GETTINGS, Robert N. HARRIS, Rick ALLIS, David S. CHAPMAN

JSA08

Wednesday, July 9 AM

EFFECTS OF SOLAR VARIABILITY ON CLIMATE CHANGE (IAGA, IAMAS)

Location: Site A, Room 8

Convener: K. Labitzke

Co-Conveners: L.L. Hood, J. Lastovicka, J.M. Pap

Presiding Chairs: K. Labitzke, L. Gray

0900 JSA08/09A/A08-001

THE ROLE OF EXTRATROPICAL WAVE FORCING IN DRIVING POSSIBLE SOLAR CYCLE VARIATIONS IN THE TROPICAL LOWER STRATOSPHERE
Lon L. HOOD, Boris E. SOUKHAREV

0915 JSA08/09A/A08-002

Invited

EVIDENCE OF THE SOLAR CYCLE IN THE GENERAL CIRCULATION
Murry L. SALBY, Patrick F. CALLAGHAN

0945 JSA08/09A/A08-003

SOLAR ACTIVITY AND GLOBAL/REGIONAL WARMING AND COOLING
Hengyi WENG

WEEK B
WED
AM

- 1000 JSA08/09A/A08-004**
WINTER NAO VERTICAL STRUCTURE PROFILE CHANGES IN ASSOCIATION WITH THE SOLAR ACTIVITY, GEOMAGNETIC ACTIVITY AND THE QBO
Pavel HEJDA, Josef BOCHNICEK
- 1015 JSA08/09A/A08-005**
THE IMPORTANCE OF STRATOSPHERIC DYNAMICS IN DETERMINING THE RESPONSE OF THE TROPOSPHERE TO SOLAR FORCING
Michael Anthony PALMER, Lesley GRAY, Myles ALLEN
- 1030 JSA08/09A/A08-006**
STUDY OF LONG TERM CHANGES IN THE GEOMAGNETIC FIELD, CUTOFF RIGIDITIES, COSMIC RAYS, AND POSSIBLE RELATION TO CLIMATE CHANGES
Don Frederick SMART, Margaret Ann SHEA
- 1045 JSA08/09A/A08-007**
THE POSSIBLE CONNECTION BETWEEN IONIZATION IN THE ATMOSPHERE BY COSMIC RAYS AND LOW LEVEL CLOUDS
Enric PALLE, John C. BUTLER, Keran O'BRIEN
- 1100 BREAK**
- 1130 JSA08/09A/A08-008 Invited**
A LIKELY DECADEAL SOLAR-CYCLEEFFECT IN THE TROPICS
Harry VANLOON
- 1200 JSA08/09A/A08-009**
THE GLOBAL SIGNAL OF THE 11-YEAR SUNSPOT CYCLE IN THE ATMOSPHERE: WHEN DO WE NEED THE QBO?
Karin LABITZKE
- 1215 JSA08/09A/A08-010**
OSCILLATIONS IN THE SUN-EARTH SYSTEM AS MANIFESTATION OF FORCES OF ASTRONOMICAL ORIGIN
Tamara V. KUZNETSOVA, Lev B. TSIRULNIK

JWH01 Wednesday, July 9 AM

SNOW PROCESSES: REPRESENTATION IN ATMOSPHERIC AND HYDROLOGICAL MODELS (IAHS/ICSI, IAMAS)
Location: Site C, Room 30

- Convenor: J. Pomeroy
Co-Conveners: R. Essery, J. King, L. Kuchment, E. Martin, T. Ohata
Presiding Chair: T. Ohta
- 0900 JWH01/09A/C30-001**
EXPERIENCE OF APPLICATION OF PHYSICALLY-BASED MODELS OF SNOWMELT RUNOFF GENERATION AND ASSIGNING OF MODEL PARAMETERS
Lev S. KUCHMENT
- 0920 JWH01/09A/C30-002**
WATER AND ENERGY TRANSFER IN SNOW AND FREEZING SOIL IN EASTERN HOKKAIDO, JAPAN
Tomoyoshi HIROTA, Yukiyoshi IWATA
- 0940 JWH01/09A/C30-003**
A MODEL OF ANNUAL HYDROLOGICAL CYCLE FOR ARCTIC TUNDRA
Hiroyuki HIRASHIMA, Tetsuo OHATA, Yuji KODAMA, Hironori YABUKI
- 1000 JWH01/09A/C30-004**
A COMPLETE MODEL FOR SNOW DRIFT PROCESSES IN STEEP ALPINE TERRAIN
Michael LEHNING, Judith DOORSCHOT, Norbert RADERSCHALL
- 1020 JWH01/09A/C30-005**
MODELLED AND OBSERVED REDISTRIBUTION OF SNOW ACROSS AN ANTARCTIC ICE RISE
John C. KING, Phil S. ANDERSON, David G. VAUGHAN, Graham W. MANN, Stephen D. MOBBS
- 1040 BREAK**
Presiding Chair: E. Martin

- 1110 JWH01/09A/C30-006**
DISTRIBUTED SNOW ACCUMULATION AND MELT MODELING - ROLE OF SNOW DRIFT, VALIDATION AND UNCERTAINTY OF THE SIMULATIONS
Juraj PARAJKA, Ladislav HOLKO, Zdeno KOSTKA
- 1130 JWH01/09A/C30-007**
MODELING REGIONAL AND GLOBAL SCALE SUBGRID HETEROGENEOUS SNOW COVER
Glen E. LISTON
- 1150 JWH01/09A/C30-008**
FEATURES OF SPATIAL DISTRIBUTION DYNAMICS OF SNOW COVER DURING SNOW MELTING PERIOD IN SUBARCTIC TUNDRA OF EASTERN SIBERIA
Georgiadi GEORGIADI, Vladislav MALYSHEV, Alexander ZOLOTOKRYLIN, Nikolai OZEROV

- 1210 JWH01/09A/C30-009**
SNOWMIP, AN INTERCOMPARISON OF SNOW MODELS: COMPARISON OF SIMULATED AND OBSERVED INTERNAL STATE
Charles G. FIERZ, Pierre ETCHEVERS, Ross BROWN, Michael LEHNING, Yves LEJEUNE, A. BOONE, Y. GUSEV, Rachel JORDAN, E. KOWALCZYK, R.D. PYLES, T. YAMAZAKI

JSM03-Posters Wednesday, July 9 AM

LAND-OCEAN-ATMOSPHERE INTERACTIONS IN THE COASTAL ZONE (IAMAS, IAPSO, IAHS)
Location: Site D

- 0830-035 JSM03/09A/D-001 Poster**
NUMERICAL SIMULATION OF STRONG WIND SITUATIONS NEAR THE MEDITERRANEAN FRENCH COAST: COMPARISON WITH FETCH DATA
Alessandro PEZZOLI, Gilles TEDESCHI, François RESCH
- 0830-036 JSM03/09A/D-002 Poster**
PROFILE MEASUREMENT OF THREE-DIMENSIONAL WIND SPEED OVER A COASTAL ZONE OF SHIMOJI ISLAND, JAPAN
Tetsuya HIYAMA, Hiroki TANAKA, Atsushi HIGUCHI, Taro SHINODA, Kenji NAKAMURA
- 0830-037 JSM03/09A/D-003 Poster**
FLUX OBSERVATION ON THE CAPE NISHI-HENNA-SAKI, SOUTHWESTERN ISLAND, JAPAN
Hiroki TANAKA, Tetsuya HIYAMA, Kenji NAKAMURA

JSM04 Wednesday, July 9 AM

TERRESTRIAL ECOSYSTEMS, ATMOSPHERIC COMPOSITION, CLIMATE (IAMAS, IAGA)
Location: Site B, Room 23

- Convenor: P. Artaxo
Co-Convenor: H. Akimoto
Presiding Chair: H. Akimoto
- 0900 JSM04/09A/B23-001**
THE IMPACT OF LAND-USE CHANGE ON GREENHOUSE GAS EMISSIONS IN TROPICAL ASIA
Haruo TSURUTA, Shigehiro ISHIZUKA, Yasuhiro NAKAJIMA, Seiichiro YONEMURA, Shigeto SUDO, Kazuyuki INUBUSHI, Shingo UEDA, Daniel MURDIYARSO, Iswandi ANAS, Abdul HADI, Mochamad ALI
- 0930 JSM04/09A/B23-002**
ATMOSPHERIC TRACE GAS EMISSIONS FROM LIVESTOCK IN SOUTH, SOUTHEAST, AND EAST ASIA
Kazuyo YAMAJI, Hajime AKIMOTO, Toshimasa OHARA
- 1000 JSM04/09A/B23-003**
CARBON ISOTOPE EXCHANGE BETWEEN THE ATMOSPHERE AND BIOSPHERE: IMPACT OF LAND-USE
Marko SCHOLZE
- 1030 JSM04/09A/B23-004**
STABLE CARBON ISOTOPES IN SEDIMENTS OF THE EAST-SIBERIAN SEA
Igor P. SEMILETOV, Oleg DUDAREV, Kyung-Hoon SHIN, Nori TANAKA

- 1100 BREAK**
- 1115 JSM04/09A/B23-005**
BIOSPHERIC CONTROL OF ATMOSPHERIC COMPOSITION IN AMAZONIA
Paulo ARTAXO, Meinrat O. ANDREAE, Alex B. GUENTHER, Daniel ROSENFELD, Luciana V. GATTI, Jose V. MARTINS
- 1145 JSM04/09A/B23-006**
A COMPARISON OF MODIS AEROSOL OPTICAL THICKNESS TO HANDHELD SUN PHOTOMETER AND AERONET SUN PHOTOMETER MEASUREMENTS DURING THE DRY SEASON IN WESTERN AMAZON BASIN, BRAZIL, 2002
Wei Min HAO, R.E. BABBITT, B.L. NORDGREN, E.N. LINCOLN, S.P.BAKER, R.A. SUSOTT, M. YAMASOE, P. ARTAXO, B.N. HOLBEN
- 1215 JSM04/09A/B23-007**
A DETAILED MICROCLIMATE MODEL TO PREDICT BVOC EMISSION FLUXES ABOVE THE CANOPY
Sabine A. WALLENS, Jean-Francois J. MULLER, Alex B. GUENTHER

JSM14 Wednesday, July 9 AM

DYNAMICS AND PREDICTABILITY OF SEVERE WEATHER EVENTS (IAMAS [ICDM, ICCP], IAHS)
Location: Site A, Room 5

Presiding Chairs: K. Moore, D. Hudak

0905

JSM14/09A/A05-001

Invited

THE 1998 ICE STORM: PLANETARY AND MESOSCALE ASPECTS
John Richard GYAKUM, Paul J. ROEBBER

0940

JSM14/09A/A05-002

PROGRESS IN THE PREDICTION OF HAZARDOUS WEATHER IN THE UK
Brian William GOLDING

0955

JSM14/09A/A05-003

SPECTRAL AND WAVELET ANALYSIS OF PRECIPITATION FROM MODELS AND RADAR
Charles A. LIN, Slavko VASIC, Isztar ZAWADZKI, Diane CHAUMONT, Lei WEN

1010

JSM14/09A/A05-004

STRUCTURES AND ENVIRONMENT OF EXPLOSIVE DEVELOPING EXTRATROPICALCYCLONES IN THE NORTHWESTERN PACIFIC REGION
Akira YOSHIDA, Yoshio ASUMA

1025

JSM14/09A/A05-005

SIMULATION OF AN EXTREME STORM EVENT: THE DECEMBER 1999 LOTHAR EVENT
Martin BENISTON, Stephane GOYETTE

1040

BREAK

1100

JSM14/09A/A05-006

Invited

HAZARDOUS WINTER PRECIPITATION: ITS FORMATION AND STORM ENVIRONMENT
Ronald Earl STEWART, Kit K. SZETO

1135

JSM14/09A/A05-007

LEE CYCLOGENESIS IN THE WESTERN CANADIAN ARCTIC REGION
Masaya KATO, Yoshio ASUMA

1150

JSM14/09A/A05-008

HIGH-RESOLUTION MODELING OF A POLAR LOW OVER THE LABRADOR SEA
Rebekah E. MARTIN, G.W.K. MOORE

1205

JSM14/09A/A05-009

IN-SITU MEASUREMENTS AND THE SYNOPTIC CONDITION OF A POLAR LOW OVER THE NORWEGIAN SEA DURING THE AAMP98 CAMPAIGN
Yoshio ASUMA, Masataka SHIOBARA, Makoto WADA, G.W.K. MOORE

JSP04

Wednesday, July 9 AM

ARCTIC ENVIRONMENT CHANGE (IAPSO, IAMAS, IAHS)

Location: Site A, Room 6

Convener: M. Ikeda

Co-Conveners: L.A. Mysak, M.A. Lange

Presiding Chairs: M. Steele, M. Lange

0900

JSP04/09A/A06-001

NORTH POLE ENVIRONMENTAL OBSERVATORY AND THE SEARCH PROGRAM
James Howe MORISON, James OVERLAND, Toshi TAKAZAWA

0920

JSP04/09A/A06-002

ARCTIC-CHAMP: THE NSF PAN-ARCTIC COMMUNITY-WIDE HYDROLOGICAL ANALYSIS AND MONITORING PROGRAM
Charles J. VOROSMARTY, Larry HINZMAN

0940

JSP04/09A/A06-003

AN INTEGRATED ASSESSMENT OF CLIMATE CHANGE IN THE BARENTS REGION
Manfred A. LANGE

1000

JSP04/09A/A06-004

VARIATIONS OF ATMOSPHERIC CONSTITUENTS AND THEIR CLIMATIC IMPACT IN THE ARCTIC
Takashi YAMANOUCI, Makoto WADA, OTHERS

1020

BREAK

1050

JSP04/09A/A06-005

DATA MANAGEMENT SUPPORT FOR NSF ARCTIC FIELD PROJECTS
James A. MOORE, Greg STOSSMEISTER, Scot M. LOEHRER

1110

JSP04/09A/A06-006

ICE-DRIFTING BUOY OBSERVATIONS OVER THE ARCTIC MID OCEAN RIDGE
Takashi KIKUCHI, Hirokatsu UNO, Kiyoshi HATAKEYAMA, James H. MORISON

1130

JSP04/09A/A06-007

SENSITIVITY EXPERIMENTS OF SEA-ICE PROCESSES ON WORLD OCEAN CIRCULATION BY USING A GLOBAL COUPLED OCEAN AND SEA-ICE MODEL
Kenji KOMINE, Tatsuo MOTOI, Keiko TAKAHASHI, Xiangdong ZHANG, Nobumasa KOMORI, Hirofumi SAKUMA, Motoyoshi IKEDA, Tetsuya SATO

1150

JSP04/09A/A06-008

SIMULATING SEASONAL CYCLES OF THE ICE-OCEAN SYSTEM IN THE PAN ARCTIC AND NORTH ATLANTIC OCEAN
Jia WANG, Meibing JIN, Moto IKEDA

1210

JSP04/09A/A06-009

CIRCULATION AND VOLUMN, ICE AND FRESHWATER TRANSPORTS OF BAFFIN BAY
C.L. TANG, E. DUNLAP, T. YAO

JSP08

Wednesday, July 9 AM

COASTAL PROCESSES AND STORM SURGES (IAPSO, IAMAS, LOICZ[IGBP])

Location: Site B, Room 19

Convener: T. Yanagi

Co-Conveners: S. Gao, A. Short, G. Perillo

Presiding Chair: T. Yanagi

0900

JSP08/09A/B19-001

Invited

MESOSCALE FEATURES IN A MEDITERRANEAN COASTAL AREA REVEALED BY A HF RADAR
Giorgio BUDILLON, Marco TRAMONTIN

0930

JSP08/09A/B19-002

STUDYING THE WATER CIRCULATION ALONG THE EGYPTIAN MEDITERRANEAN COAST USING THREE DIMENSIONAL NUMERICAL MODEL
Sayed H. SHARAF EL-DIN, Khaled A. ALAM EL-DIN, Omneya M. IBRAHIM

0950

JSP08/09A/B19-003

THE RESPONSES OF THE WEST FLORIDA CONTINENTAL SHELF TO THE WINTER STORMS
Ruoying HE

1010

JSP08/09A/B19-004

CURRENT STRUCTURE AND BEHAVIOR OF THE RIVER PLUME IN SUO-NADA, JAPAN
Shinya MAGOME, Atsuhiko ISOBE

1030

JSP08/09A/B19-005

QUANTIFICATION OF CONTAMINANT FLUX IN AN IMPACTED ESTUARY, WINYAH BAY, SOUTHEASTERN USA
Yong Hoon KIM, Mary CATHEY, George VOULGARIS, Miguel GONI, Richard STYLES

1050

BREAK

1100

JSP08/09A/B19-006

CURRENTS AND TURBULENT EXCHANGE PROCESSES IN LAKE ONTARIO
Ram Rao YERUBANDI

1120

JSP08/09A/B19-007

TEMPORAL AND SPATIAL ASYMMETRIES IN THE TIDAL RESPONSE OF SHALLOW INLETS AND BACK-BARRIER BASSINS
Emil V. STANEV, Joerg-Olaf WOLFF

1140

JSP08/09A/B19-008

SEASONAL VARIABILITY OF NUTRIENTS SUPPLY TO THE PULICAT LAKE, EAST COAST OF INDIA
Jaya Raju NADIMIKERI

1200

JSP08/09A/B19-009

DEVELOPMENT OF A SEMI-SPECTRAL COASTAL OCEAN MODEL AND ITS APPLICATION TO THE NEKO SETO SEA IN THE SETO INLAND SEA
Masazumi ARAI

1220

JSP08/09A/B19-010

WEAK WIND-WAVE/LOW-FREQUENCY CURRENT INTERACTION WITH DUE REGARD FOR BOTTOM MOBILITY
Boris KAGAN, Oscar ALVAREZ, Alfredo IZQUIERDO, Rafael MANANES, Begonia TEJEDOR, Luis TEJEDOR

1240

JSP08/09A/B19-011

SEA-BREEZE-MODULATED SEASONAL VARIABILITY IN THE K1 TIDAL DYNAMICS IN NEARSHORE REGIONS
Oscar ALVAREZ, Begonia TEJEDOR, Luis TEJEDOR, Boris KAGAN

JSP10

Wednesday, July 9 AM

ROTATING AND STRATIFIED FLUIDS (IAPSO, IAGA, IAMAS, SEDI)

Location: Site B, Room 21

0900

JSP10/09A/B21-001

Invited

THE DISPERSION RELATION FOR MID-LATITUDEOCEANIC PLANETARY WAVES IN THE PRESENCEOF MEAN FLOW AND TOPOGRAPHY
Peter Douglas KILL WORTH, Jeffrey Ralph BLUNDELL

0930

JSP10/09A/B21-002

WAVE-PACKET RESONANCE : ATMOSPHERIC STORM TRACKS DYNAMICS
Mankin MAK, Yi DENG

WEEK

B

WED

AM

0950 JSP10/09A/B21-003
 LIMITATION OF THE BALANCED DYNAMICS IN THE F-PLANE SHALLOW WATER SYSTEM
 Norihiko SUGIMOTO, Shigeo YODEN

1010 JSP10/09A/B21-004
 EFFECT OF THERMAL FORCING ON THE GENERAL CIRCULATION AND MEAN FLOW EDDY INTERACTIONS
 Oliver STENZEL, Jin-Song VON STORCH

1030 BREAK

1040 JSP10/09A/B21-005
 BAROCLINIC GEOSTROPHIC ADJUSTMENT IN A ROTATING CIRCULAR BASIN
 Geoffrey W. WAKE, Gregory N. IVEY, Jörg IMBERGER, N. Robb MCDONALD

1100 JSP10/09A/B21-006
 SIMPLE FRONTAL MODELS OF BAROCLINIC INSTABILITY
 Mateusz K. RESZKA, Gordon E. SWATERS

1120 JSP10/09A/B21-007
 NONLINEAR GEOSTROPHIC ADJUSTMENT OF DENSITY FRONT
 Alexandre STEGNER, Pascale BOURUET-AUBERTOT, Thierry PICHON

1140 JSP10/09A/B21-008
 THE STABILITY OF ALONG ISOBATH CURRENTS FOR A SHELF-CONTINENTAL SLOPE OROGRAPHY
 Don L. BOYER, Andjelka N. SRDIC-MITROVIC, Sergey A. SMIRNOV, Peter G. BAINES, Joel SOMMERIA

1200 JSP10/09A/B21-009
 THE SPLITTING OF EDDIES BY ISLANDS
 Harper L. SIMMONS, Doron NOF

1220 JSP10/09A/B21-010
 EDDIES GENERATED BY A HUGE MOUNTAIN IN A ROTATING STRATIFIED FLUID
 Yu HOZUMI, Hiromasa UEDA, Weiming SHA

JSS06 Wednesday, July 9 AM

EARTH STRUCTURE AND GEODYNAMICS (IASPEI, IAVCEI, IAG, IAGA)
 Location: Site A, Room 4

Presiding Chair: F. Niu

0900 JSS06/09A/A04-001
 EAST-WEST HEMISPHERICAL DICHOTOMY OF SEISMIC STRUCTURE AT THE TOP OF THE INNER CORE AND ITS IMPLICATIONS
 Fenglin NIU, Lianxing WEN

0920 JSS06/09A/A04-002
 INNER-MOST INNER CORE: A DISTINCT REGION AT THE CENTER OF THE EARTH
 Miaki ISHII, Adam M. DZIEWONSKI

0940 JSS06/09A/A04-003
 PKP TRAVEL TIME DATA: COMPLEXITY IN INNER CORE ANISOTROPY STRUCTURE?
 Barbara A. ROMANOWICZ, Aimin CAO

1000 JSS06/09A/A04-004
 LONG-TIME ANGULAR MOMENTUM AND MASS TRANSPORTS IN THE CORE
 Sergei V. STARCHENKO

1020 BREAK

1040 JSS06/09A/A04-005
 PRODUCT SPECTRAL DENSITY OF THE TIDAL GRAVITY DATA OBSERVED WITH GLOBAL SUPERCONDUCTING GRAVIMETERS AT GGP STATIONS: A SEARCH FOR THE INNER CORE TRANSLATION TRIPLET
 Jian-Qiao XU, He-Ping SUN, Bernard DUCARME

1100 JSS06/09A/A04-006
 THE ELECTRICAL CONDUCTIVITY STRUCTURE OF THE EUROPEAN LOWER MANTLE
 Pascal TARITS, Mioara MANDEA

1120 JSS06/09A/A04-007
 TOMOGRAPHIC EVIDENCE FOR SUBDUCTION INDUCED RIFTING OF THE NAZCA PLATE
 Tom HILDE, Sri WIDIYANTORO, Yoshio FUKAO

1140 JSS06/09A/A04-008
 DISCONTINUITIES IN THE LOWER-MANTLE BENEATH WESTERN PACIFIC REGION
 Shao Xian ZANG, Yuan Ze ZHOU

1200 JSS06/09A/A04-009
 ESTIMATING THE PLAUSIBLE TEMPORAL CHANGE IN THE THERMAL STATE OF D" LAYER DUE TO SUPERPLUME EPISODES
 Upendra RAVAL

JSS07 Wednesday, July 9 AM

TSUNAMIS: THEIR SCIENCE, ENGINEERING AND HAZARD MITIGATION (IASPEI, IAVCEI, IAPSO)
 Location: Site A, Room 2

Convener: V.K. Gusiakov
 Co-Conveners: Y. Nishimura, E. Pelinovsky, K. Satake
 Presiding Chairs: S. Tinti, Y. Tsuji

0900 JSS07/09A/A02-001
 THE NATIONAL TSUNAMI HAZARD MITIGATION PROGRAM
 Eddie N. BERNARD

0915 JSS07/09A/A02-002
 SEISMIC ACTIVITY AND TSUNAMI ACTIVITY OF THE MAIN TSUNAMIGENIC REGIONS IN THE PACIFIC: A COMPARATIVE STUDY
 Viatcheslav K. GUSIAKOV

0930 JSS07/09A/A02-003
 SOURCE MODELING OF HOLOCENE TSUNAMIS ALONG THE KURIL TRENCH
 Kenji SATAKE, Futoshi NANAYAMA, Shigeru YAMAKI

0945 JSS07/09A/A02-004
 TSUNAMI WAVES GENERATED BY 1883 KRAKATAU ERUPTION: ANALYSIS, SOURCE DEFINITION AND NUMERICAL SIMULATION
 Efim PELINOVSKY, Alexander STROMKOV, Irina DIDENKULOVA, ByungHo CHOI

1000 JSS07/09A/A02-005
 DISTRIBUTION OF CUMULATIVE TSUNAMI ENERGY FROM ALEUTIAN-ALASKA TO WEST CANADA
 Tokutaro HATORI

1015 JSS07/09A/A02-006
 DAMAGES TO HOUSES BY THE 1964 TSUNAMI IN CRESCENT CITY, CALIFORNIA
 Nobuo SHUTO

1030 JSS07/09A/A02-007
 THE SEARCH FOR TSUNAMI SOURCE DISCRIMINANTS IN THE NEAR AND FAR FIELDS
 Emile OKAL, Costas E. SYNOULAKIS

1045 BREAK

1100 JSS07/09A/A02-008
 INTEGRATED WEB-BASED ORACLE AND GIS ACCESS TO TSUNAMI AND EARTHQUAKE DATA FOR QUALITY CONTROL AND ANALYSIS
 Paula Kay DUNBAR, John C. CARTWRIGHT, Daniel KOWAL, Thomas GAINES

1115 JSS07/09A/A02-009
 VULNERABILITY ASSESSMENT AND PREVENTION MEASURES FOR TSUNAMI FLOODING OF URBAN AREAS AND INDUSTRIAL PORTS OF MEXICO
 Salvador F. FARRERAS, Modesto F. ORTIZ

1130 JSS07/09A/A02-010
 PROGRESSES IN THE ASSESSMENT OF TSUNAMI GENESIS AND IMPACTS AROUND THE PORTUGUESE COASTS
 Luis MENDES-VICTOR, Antonio RIBEIRO, Luis MATIAS, Maria Ana BAPTISTA, J. Miguel MIRANDA, Pedro MIRANDA, Nevio ZITELLINI, Eulalia GARCIA, Carlos CORELA, Pedro TERRINHA

1145 JSS07/09A/A02-011
 SOUTH AMERICAN TSUNAMI IMPACT IN NEW ZEALAND
 Gaye L. DOWNES

1200 JSS07/09A/A02-012
 TSUNAMI SIMULATION FOR THE SOUTHWESTERN COAST OF ANATOLIA
 Ahmet Cevdet YALCINER, Baris HABOGLU, Efim PELINOVSKY, Fumihiko IMAMURA, Costas SYNOLAKIS

1215 JSS07/09A/A02-013
 DB DRIVEN QUICK TSUNAMI FORECASTING IN KOREA
 Ho Jun LEE, Yong Sik CHO



GAI.10 Wednesday, July 9 AM

ELECTROMAGNETIC INVERSION MODELING
 Location: Site A, Room 11

Convener: S.K. Verma
 Presiding Chairs: S.K. Verma, M.S. Zhdanov

0900 GAI.10/09A/A11-001
NEW FAST METHOD OF THREE-DIMENSIONAL INVERSION OF
MAGNETOTELLURIC DATA
Michael S. ZHDANOV, Nikolay G. GOLUBEV

0915 GAI.10/09A/A11-002
MAGNETOTELLURIC 2-D AND 3-D INVERSIONS USING MARKOV CHAIN
MONTE CARLO (MCMC) :PRELIMINARY RESULTS
Hendra GRANDIS, Toru MOGI, Elena Y. FOMENKO

0930 GAI.10/09A/A11-003
PARAMETERIZATION AND FUNDAMENTAL MODELS FOR EM INVERSION
Igor Ivanovich ROKITYANSKY

0945 GAI.10/09A/A11-004
INVERSION OF AMT DATA FOR KIMBERLITE EXPLORATION
Alexander K. SARAEV, Mikhail I. PERTEL, Mikhail N. GARAT, Alexander V.
MANAKOV, Yuri G.PODMOGOV

1000 GAI.10/09A/A11-005
GLOBAL OPTIMIZATION OF MAGNETOTELLURIC FIELD DATA COLLECTED
ACROSS THE ARCHAEOAN_PROTEROZOIC CONTACT IN THE EASTERN INDIA
USING FINITE ELEMENT FORWARD MODEL WITH ADVANCED LEVEL
ELEMENTS
Kalyan Kumar ROY, N.S.R. MURTHY

1015 GAI.10/09A/A11-006
INVERSION OF MAGNETOTELLURIC DATA ALONG REGIONAL PROFILE IN
THE NORTH-EAST OF RUSSIA
Pavel Yu PUSHKAREV, Mark N. BERDICHEVSKY, Alexander V. LIPILIN, Leonid
L. FELDMAN, Robert G. BERZIN, Arsen K. SULEIMANOV, Andrei G.
YAKOVLEV, Denis V. YAKOVLEV, Elena V. ANDREEVA, Igor M.
SBORSHIKOV

1030 BREAK

1100 GAI.10/09A/A11-007
IMPROVEMENT IN TARGET RESOLUTION BY JOINT INVERSION OF MT,
SEISMIC, AND DC DATA
Saurabh Kumar VERMA, Ajay MANGLIK

1115 GAI.10/09A/A11-008
APPROXIMATE JOINT INVERSION OF DC GEOELECTRIC AND REFRACTION
SEISMIC DATA
Tamas ORMOS, Michael DOBROKA, Akos GYULAI, Lothar DRESEN

1130 GAI.10/09A/A11-009
JOINT INVERSION OF GEOELECTRIC- AND SURFACE WAVE SEISMIC
DISPERSION DATA
Michael DOBROKA

1145 GAI.10/09A/A11-010
SOLUTIONS OF THE INHERENT PROBLEM OF THE EQUIVALENCE IN DIRECT
CURRENT RESISTIVITY AND ELECTROMAGNETIC METHODS THROUGH
GLOBAL OPTIMIZATION AND JOINT INVERSION BY SUCCESSIVE
REFINEMENT OF MODEL SPACE
Shashi Prakash SHARMA, Saurabh Kumar VERMA

1200 GAI.10/09A/A11-011
SIMULTANEOUS INVERSION OF ELECTRIC AND MT DATA IN 1-D SITUATIONS
USING MCMC METHODS
Michel MENVIELLE, Michel ROUSSIGNOL, Jean-Jacques SCHOTT

1215 GAI.10/09A/A11-012
JOINT INVERSION OF MAGNETOTELLURIC AND SEISMIC DATA FROM
SOUTHERN GRANULITE TERRAIN OF THE INDIAN SHIELD
A. MANGLIK, K. NAGANJANEYULU, K. SAIN, T. HARINARAYANA, V.
VIJAYA RAO, S.K. VERMA

GAI.04-Posters Wednesday, July 9 AM
**LIGHTNING-INDUCED TRANSIENT PROCESSES IN THE
MIDDLE AND UPPER ATMOSPHERE AND THEIR IMPACT ON
THE EARTH SYSTEM**
Location: Site D

Presiding Chair: H. Fukunishi

0830-137 GAI.04/09A/D-001 Poster
ON THE DYNAMICS OF THE NORTH-SOUTH SEASONAL MIGRATION OF
GLOBAL LIGHTNING
Gabriella SATORI

0830-138 GAI.04/09A/D-002 Poster
LIGHTNING LOCATION WITH A SINGLE VLF EM RECEIVER
Isamu NAGANO, Satoshi YAGITANI, Hisao KOMONMAE

0830-139 GAI.04/09A/D-003 Poster
A DEVELOPMENT OF OBSERVATION SYSTEM AND INITIAL RESULTS FOR
THE SIMULTANEOUS MEASUREMENT OF SPRITES AND HORIZONTAL
ELECTRIC CURRENTS IN THE LIGHTNING DISCHARGE
Atsushi OHKUBO, Hiroshi FUKUNISHI, Yukihiro TAKAHASHI, Isamu NAGANO

0830-140 GAI.04/09A/D-004 Poster
INVESTIGATION OF WINTERTIME SPRITES AND THEIR PARENT
THUNDERSTORM SYSTEMS IN JAPAN
Toru ADACHI, Hiroshi FUKUNISHI, Yukihiro TAKAHASHI

0830-141 GAI.04/09A/D-005 Poster
SPRITES OBSERVATION IN NORTHERN SCANDINAVIA
Yukihiro TAKAHASHI, Mitsuteru SATO, Satonori NOZAWA, Hiroshi FUKUNISHI,
Ryoichi FUJII

0830-142 GAI.04/09A/D-006 Poster
NUMERICAL MODELING OF SPRITES FOR THEIR ENERGETICS AND
CHEMICAL EFFECTS ON THE MIDDLE ATMOSPHERE
Yasutaka HIRAKI, Lizhu TONG, Hiroshi FUKUNISHI, Ken-ichi NANBU, Yukihiro
TAKAHASHI, Yasuko KASAI

0830-143 GAI.04/09A/D-007 Poster
THE EFFECTS OF THE THUNDERCLOUD OF REVERSE ELECTRIC POLARITY
ON THENIGHTTIME E REGION IONOSPHERE
Vitalii P. KI M, Valerii V. HEGAI

GAI.06 Wednesday, July 9 AM
IONOSPHERIC IRREGULARITIES, FIELDS AND WAVES
Location: Site A, Room 10

Convener: D. Hysell
Co-Conveners: M. Yamamoto, T. Nakamura, J. LaBelle
Presiding Chair: J. Labelle

LOW AND MID LATITUDES

0900 GAI.06/09A/A10-001
OCCURRENCE AND SPECTRAL CHARACTERISTICS OF IONOSPHERIC
IRREGULARITIES DERIVED FROM ROCSAT-1 OBSERVATIONS
Huey-Ching YEH, S.-Y. SU, R.A. HEELIS, H.-H. HO, K.-Y. CHEN, C.-H. LIU

0920 GAI.06/09A/A10-002
SIMULTANEOUS RADAR OBSERVATIONS OF THE EQUATORIAL SPREAD F
AT 18 MHZ AT THE EQUATOR AND AT 53 MHZ AT OFF THE EQUATOR OVER
INDIA
Amit Kumar PATRA, D. TIWARI, Sripathi S., Rao P.B., Sridhran R., Devasia C.V.,
Viswanathan K.S., Subbarao K.S.V., Sekar R., Kherani E.

0935 GAI.06/09A/A10-003
SIMULTANEOUS STUDY OF LARGE SCALE GRADIENT-DRIFT AND
RAYLEIGH-TAYLOR INSTABILITY IN THE NIGHT-TIME EQUATORIAL
IONOSPHERE
Esfhan Alam KHERANI

0950 GAI.06/09A/A10-004
THE TOPSIDE IONOSPHERE HE+ DENSITY SUBTROUGH AS
IRREGULARITIES OF THE BUBBLE ORIGIN
Larissa SIDOROVA

1005 GAI.06/09A/A10-005
SEASONAL VARIATIONS IN THE SPATIAL STRUCTURE OF EQUATORIAL
SPREAD F IRREGULARITIES
Archana BHATTACHARYYA, Bharati ENGA VALE, Krishnamoorthy JEEVA

1020 GAI.06/09A/A10-006
ROLE THE MAGNETOSPHERIC AND IONOSPHERIC CURRENTS IN
GENERATION OF THE EQUATORIAL F LAYER IRREGULARITIES DURING
MAGNETIC STORMS
Lilia Z. SIZOVA

1035 GAI.06/09A/A10-007
MULTI-POINT GROUND AND SATELLITE OBSERVATIONS OF NIGHTTIME
MEDIUM-SCALE TRAVELING IONOSPHERIC DISTURBANCES AT
MIDLATITUDES
Kazuo SHIOKAWA, Yuichi OTSUKA, Tadahiko OGAWA

1055 BREAK

1110 GAI.06/09A/A10-008
A SURVEY OF PRESENT KNOWLEDGE OF THE UNSTABLE SPORADIC
LAYERS AT MIDLATITUDE
Christos HALDOUPIS

1130 GAI.06/09A/A10-009
MORPHOLOGICAL STUDY OF THE FIELD-ALIGNED E LAYER
IRREGULARITIES OBSERVED BY THE GADANKI VHF RADAR
Chen-Jeih PAN, P.B. RAO

1145 GAI.06/09A/A10-010 Invited
ION THERMAL EFFECTS ON E-REGION INSTABILITIES
Meers M. OPPENHEIM, Yakov S. DIMANT

1205 GAI.06/09A/A10-011
INTERFEROMETRIC OBSERVATIONS OF E REGION FIELD-ALIGNED
IRREGULARITIES WITH THE PIURA VHF RADAR
Jorge L. CHAU, Danny SCIPION, Luis A. FLORES

**WEEK
B
WED
AM**

- 1225 GAll.06/09A/A10-012**
RECENT PROGRESS OF THE CHUNG-LI RADAR GROUP IN THE STUDY OF ES IRREGULARITIES
Yen-Hsyang CHU
- 1245 GAll.06/09A/A10-013**
QUASI-PERIODIC DRIFT MOTIONS OF METER-SCALE IRREGULARITIES OBSERVED AT THE CHUNG-LI VHF RADAR
Chien-Ming HUANG

GAll.07 Wednesday, July 9 AM

WHAT IS THE ROLE OF NON-LINEAR PROCESSES AND COMPLEX SYSTEM DYNAMICS IN DETERMINING MAGNETOSPHERIC BEHAVIOR?
Location: Site A, Room 14

- Convener: Y. Omura
Co-Conveners: R.A. Treumann, G.S. Lakhina
Presiding Chair: G.S. Lakhina
- 0900 GAll.07/09A/A14-001**
COMPLEXITY AND FSOC IN SPACE PLASMAS
Tom T.S. CHANG
- 0930 GAll.07/09A/A14-002**
ANALYSIS OF GEOMAGNETIC STORMS USING FRACTAL THEORY
Chandrasekhar ENAMUNDRAM, Mohan N. L.
- 0950 GAll.07/09A/A14-003**
SELF-ORGANIZED CRITICALITY IN EARTH'S MAGNETOTAIL DYNAMICS AND ITS IMPLICATIONS FOR SUBSTORM ONSET
Vadim M. URITSKY, Alex J. KLIMAS, Dimitris VASSILIADIS, Daniel M. BAKER

- 1010 BREAK**
- 1030 GAll.07/09A/A14-004**
THE STATE TRANSITION MODEL OF THE SUBSTORM ONSET
Takashi TANAKA
- 1100 GAll.07/09A/A14-005 Invited**
SELF-ORGANIZED TURBULENCE, FRACTIONAL KINETIC PROCESSES, AND POWER-LAW FLUCTUATION SPECTRA IN THE EARTH'S STRETCHED MAGNETOTAIL
Alexander V. MILOVANOV, Lev M. ZELENYI
- 1130 GAll.07/09A/A14-006**
GLOBAL AND MULTI-SCALE DYNAMICS OF THE MAGNETOSPHERE
A. Surjalal SHARMA, Alexander Y. UKHORSKIY, Mikhail I. SITNOV
- 1150 GAll.07/09A/A14-007**
A MINIMAL SUBSTORM MODEL THAT EXPLAINS THE OBSERVED STATISTICAL DISTRIBUTION OF TIMES BETWEEN SUBSTORMS
Mervyn Paul FREEMAN
- 1210 GAll.07/09A/A14-008**
MAGNETOSPHERIC DYNAMICS DRIVEN BY SOLAR WIND PRESSURE PULSE: SPATIO-TEMPORAL STRUCTURE FROM THE AVERAGE MUTUAL INFORMATION
A. Surjalal SHARMA, J. EDWARDS, M.I. SITNOV, Y. KAMIDE, B.T. TSURUTANI

GAll.11 Wednesday, July 9 AM

HOW DO SPACECRAFT INTERACT WITH THEIR SPACE ENVIRONMENT?
Location: Site A, Room 15

- Convener: H. Usui
Co-Conveners: A. Hilgers, J.-J. Berthelier, H.G. James, P. Bernhardt
Presiding Chairs: J.-J. Berthelier, H. Usui
- 0900 GAll.11/09A/A15-001**
A REVIEW OF SPACECRAFT EFFECTS ON PLASMA MEASUREMENTS
Alain HILGERS
- 0925 GAll.11/09A/A15-002**
HIGH-ENERGY PARTICLES AND THREATS TO SPACECRAFT
Joe H. ALLEN, Daniel N. BAKER
- 0940 GAll.11/09A/A15-003**
INVESTIGATION OF SPACECRAFT/PLASMA INTERACTIONS USING ASPOC AND PEACE
Knut SVENES, Bjorn NARHEIM, Klaus TORKAR, Andrew FAZAKERLEY, Michael FEHRINGER, Phillipe ESCOUBET
- 0955 GAll.11/09A/A15-004**
CHARGING OF THE METALIC ELECTRODE CAUSED BY ENERGETIC ELECTRONS
Yuzo WATANABE

- 1010 GAll.11/09A/A15-005**
SPACECRAFT CHARGING ANOMALIES AND THEIR RELATION TO THE SPACE ENVIRONMENT
Tateo GOKA, Haruhisa MATSUMOTO, Kiyokazu KOGA, Hitoshi MATSUOKA, Hideki KOSHIISHI, Masaki AKIOKA

- 1035 BREAK**
- 1055 GAll.11/09A/A15-006 Invited**
CRITICAL PROBLEMS OF SOLAR POWER STATION FROM SPACE PLASMA PHYSICS VIEW POINT
Hiroshi MATSUMOTO
- 1120 GAll.11/09A/A15-007**
ANALYTICAL STUDY ON THE APPLICATION OF EXHAUSTED BEAM IONS FROM ION THRUSTER TO ENA OBSERVATION
Yoshiki YAMAGIWA, Yukitaka TANAKA, Hitoshi KUNINAKA
- 1135 GAll.11/09A/A15-008**
COMPUTER EXPERIMENTS ON INTERACTION OF HEAVY ION BEAM FROM A LARGE-SCALE ION ENGINE WITH MAGNETOSPHERIC PLASMA
Yoshiharu OMURA, Toshihiro SAKAKIMA, Hideyuki USUI, Hiroshi MATSUMOTO
- 1150 GAll.11/09A/A15-009**
ARTIFICIAL DISTURBANCES OF THE IONOSPHERE OVER THE MILLSTONE HILL RADAR DURING DEDICATED BURNS OF THE SPACE SHUTTLE OMS ENGINES
Paul A. BERNHARDT, Phil J. ERICSON, Frank D. LIND, Bodo REINISCH
- 1205 GAll.11/09A/A15-010 Invited**
ION PROPULSION INDUCED PLASMA INTERACTIONS: AN OVERVIEW OF RESULTS FROM DEEP SAPCE 1
Joseph J. WANG

GAIV.03 Wednesday, July 9 AM

MARS: MAGNETISM AND INTERACTION WITH THE SOLAR WIND
Location: Site A, Room 16

- Presiding Chairs: D. Winterhalter, M.H. Acu
- 0900 GAIV.03/09A/A16-001**
THE SOLAR WIND INTERACTION WITH MARS
Yingjuan MA, Andrew F. NAGY, Igor SOKOLOV
- 0930 GAIV.03/09A/A16-002**
EXAMINING THE CRUSTAL FIELD TOPOLOGY AT MARS WITH THE MGS MAG/ER DATA: COMPARISONS WITH A B-FIELD DEPENDENT TRANSPORT CODE
Michael W. LIEMOHN, David L. MITCHELL, Andrew F. NAGY, Stephen W. BOUGHER, Jane L. FOX, Jacki M. FRANK, Tamara W. REIMER
- 0950 GAIV.03/09A/A16-003**
INTERACTION BETWEEN THE SOLAR WIND AND A "MARS-TYPE" PLANET HAVING A SMALL-SCALE LOCAL MAGNETIC STRUCTURE ON ITS SURFACE
Kiyoshi MAEZAWA
- 1010 GAIV.03/09A/A16-004**
WAVES AT MARS: A TENTATIVE REVIEW
Jean Gabriel TROTIGNON

- 1040 BREAK**
- 1100 GAIV.03/09A/A16-005**
REFLECTED IONS UPSTREAM OF A CURVED QUASI-PERPENDICULAR SHOCK
Ronan MODOLO, Gerard M. CHANTEUR, Allan P. MATTHEWS
- 1120 GAIV.03/09A/A16-006 Invited**
STATIONARY NONLINEAR LF ELECTROMAGNETIC WAVES IN A BEAM-PLASMA: APPLICATION TO UPSTREAM PHENOMENA AT EARTH AND MARS
Konrad SAUER, Eduard DUBININ, Christian MAZELLE
- 1150 GAIV.03/09A/A16-007 Invited**
OBSERVATION OF THE MARTIAN UPPER ATMOSPHERE BY JAPANESE MARS ORBITER NOZOMI
Yoshifumi SAITO, Hajime HAYAKAWA, Kiyoshi MAEZAWA
- 1220 GAIV.03/09A/A16-008**
ABOUT A MAGNETIC TOPOLOGY OF THE MARS WAKE IN THE PLANE OF PHOBOS ORBIT
Valentina G. MORDOVSKAYA, Victor N. ORAEVSKY

HS01

Wednesday, July 9 AM

EROSION PREDICTION OF UNGAUGED BASINS (PUBS):
INTEGRATING METHODS AND TECHNIQUES (ICCE, ICRS AND
ALL IAHS COMMISSIONS)

Location: Site C, Room 29

Presiding Chairs: D. Higgitt, D. Walling

0900

HS01/09A/C29-001

USE OF RECONNAISSANCE MEASUREMENTS TO ESTABLISH CATCHMENT
SEDIMENT BUDGETS: A ZAMBIAN EXAMPLE
Desmond Eric WALLING, Adrian Loric COLLINS, Henry M. SICHINGABULA,
Graham J. LEEKS

0920

HS01/09A/C29-002

SOIL EROSION ASSESSMENT FOR WATER RESOURCES MANAGEMENT IN
SELECTED SOUHTERN AFRICAN RIVER BASINS USING THE EOSION
RESPONSE UNITS APPROACH
Michael MAERKER, Wolfgang Albert FLUEGEL, Aleksey SIDORCHUK

0940

HS01/09A/C29-003

THE USE OF GAVRILOVIC METHOD IN PREDICTION OF EROSION IN
UNGAGEDCATCHMENTS: ITS APPLICABILITY AND POSSIBLE
DEVELOPMENT WITH NEW SPATIAL DATAMANIPULATION TECHNIQUES
Lidija GLOBEVNIK

1000

HS01/09A/C29-004

PREDICTION OF ANNUAL SEDIMENT TRANSPORT IN A SMALL UNGAUGED
TORRENTIAL BASINS IN SERBIA
Stanimir C. KOSTADINOV

1020

HS01/09A/C29-005

ESTIMATION OF SEDIMENT- AND DISSOLVED LOAD FROM GREENLAND
Bent HASHOLT

1040

HS01/09A/C29-006

EROSION PREDICTION IN UNGAUGED GLACIERIZED BASINS
Jim BOGEN , Truls Erik BØNSNES

1100

BREAK

1120

HS01/09A/C29-007

FIRST-ORDER ESTIMATE OF OVERLAND FLOW BUFFERING IN A
FRAGMENTED TROPICAL UPLAND BASIN
Alan D. ZIEGLER, Thomas W. GIAMBELLUCA

1140

HS01/09A/C29-008

CONSTRUCTION OF A SEDIMENT BUDGET FOR THE UPPER INDUS RIVER
BASIN
Khawaja Faran ALI, Dirk H. DE BOER

1200

HS01/09A/C29-009

THE IMPORTANCE OF INSTITUTIONAL ARRANGEMENTS SHOWN BY
EROSION EXAMPLES IN THE REPUBLIC OF MOLDOVA
Wolfgang SUMMER, Wolfgang DIERNHOFER

1220

HS01/09A/C29-010

EVALUATION OF AN EROSION SIMULATION MODEL IN A SEMIARID REGION
OF BRAZIL
Vajapeyam S. SRINIVASAN, Ricardo de ARAGÃO

HS02

Wednesday, July 9 AM

WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK
ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR,
ICSW, ICWQ)

Location: Site C, Room 24

Presiding Chairs: S. Franks

0900

HS02/09A/C24-001

ESTIMATION OF A SNOW DISTRIBUTION IN SUBALPINE REGION: USING A
DISTRIBUTED SNOWMELT MODEL
Kentaro MATSUI, Takeshi OHTA

0915

HS02/09A/C24-002

THE INFLUENCE OF SNOW DEPTH ON THE VARIATION OF VEGETATION
ACTIVITY AND EVAPOTRANSPIRATION
Yoshihiro ASAOKA, So KAZAMA, Masaki SAWAMOTO

0930

HS02/09A/C24-003

EFFECT OF SNOW INTERCEPTION ON THE ENERGY BALANCE ABOVE
DECIDUOUS AND CONIFEROUS FORESTS DURING A SNOWY WINTER
Kazuyoshi SUZUKI, Yuichiro NAKAI, Takeshi OHTA, Tsutomu NAKAMURA,
Tetsuo OHATA

0945

HS02/09A/C24-004

SOME PROBLEMS IN REGIONALIZATION OF INDIANA WATERSHEDS
A. Ramachandra RAO, A. Ramachandra RAO

1000

HS02/09A/C24-005

AN APPROACH TO CREATING LUMPED-PARAMETER RAINFALL-RUNOFF
MODELS FOR CATCHMENTS EXPERIENCING ENVIRONMENTAL CHANGE
William Earl BARDSLEY, Suxia LIU

1015

BREAK

1045

HS02/09A/C24-006

THE IMPACT OF CLIMATE VARIABILITY ON FLOOD RISK
Anthony S. KIEM, Stewart W. FRANKS

1100

HS02/09A/C24-007

COULD THE GLOBAL WARMING CAUSE THE LAST FLOODS OF TISZA
RIVER?
Istvan KONTUR, Andras BARDOSSY, Balazs CZENTYE

1115

HS02/09A/C24-008

EXTREME PRECIPITATION AND FLOODS IN THE CHANGING WORLD
Zbigniew W. KUNDZEWICZ

1130

HS02/09A/C24-010

TESTING TRENDS IN ANNUAL PEAK DISCHARGE SERIES IN ISRAEL
Arie BEN-ZVI, Benjamin AZMON

1145

HS02/09A/C24-011

REGIONAL FLOOD RISK - WHAT ARE THE DRIVING PROCESSES?
Ralf MERZ

1200

HS02/09A/C24-012

MAXIMUM PRECIPITATION VALUES?
Gerd TETZLAFF, Michael BOERNGEN, Manfred MUDELSEE, Armin RAABE

1215

HS02/09A/C24-013

THE SCENARIOS OF CHANGE OF REPEATABILITY OF THE CATASTROPHIC
PHENOMENA IN UKRAINE UNDER INFLUENCE OF GLOBAL WARMING (ON
THE BASIS OF HISTORICAL RECORDS AND ANNALS)
Svetlana G. BOYCHENKO

HW01

Wednesday, July 9 AM

EFFECTS OF HUMAN ACTIVITIES ON HYDROLOGICAL AND
BIOGEOCHEMICAL CYCLES (ICWQ)

Location: Site C, Room 26

Convenor: N. Ohte

Co-Convenor: N.E. Peters

Presiding Chairs: K. Heal, N. Ohte

0900

INSTRUCTION

0910

HW01/09A/C26-001

Invited
WATER AND SEDIMENT PATHWAYS FROM TERRESTRIAL TO FLUVIAL
SYSTEMS: THE KEY TO ASSESSING LAND USE
Roy C. SIDLE

0930

HW01/09A/C26-002

IMPACT OF URBAN GROWTH ON INDIA'S SURFACE AND GROUNDWATER
QUALITY
Sitharama Murty KOTTAPALLI

0950

HW01/09A/C26-003

THE CHANGE OF SPRING WATER QUALITY CAUSED BY URBANIZATION IN
UPLAND AREA
Atsuko TERAZONO, Hiroo OHMORI

1010

HW01/09A/C26-004

NITRATE TRANSPORT IN UNSATURATED ZONE NEAR A SMALL STREAM IN
AN AGRICULTURAL AREA
Fumi SUGITA, Michael ENGLISH, Sherry SCHIFF

1030

HW01/09A/C26-005

EFFECTS OF LAND USE AND SOIL TYPE ON MANGANESE MOBILISATION
FROM UPLAND SOILS
Kate Victoria HEAL, Alasdair Macdonald HARDIE, Allan LILLY

1050

BREAK

1110

HW01/09A/C26-006

EFFECTS OF LAND USE CHANGE ON HYDROLOGICAL CYCLE: A CASE
STUDY ON CHAOBAIHE RIVER BASIN IN NORTH CHINA
Gang-sheng WANG, Jun XIA

1130

HW01/09A/C26-007

BIOMASS BURNING AEROSOLS AND RAINWATER CHEMISTRY IN
SOUTHEAST BRAZIL
L.B.L.S. LARA, P.B. CAMARGO, P. ARTAXO, L.A. MARTINELLI, E.S.B.
FERRAZ

WEEK

B

WED

AM

- 1150 HW01/09A/C26-008**
EFFECTS OF VEGETATION AND LANDUSE ON THE HYDROLOGIC CYCLE OF SEMI-ARID CANADIAN PRAIRIES
Masaki HAYASHI
- 1210 HW01/09A/C26-009**
INFLUENCE OF ANTHROPOGENIC ACTIVITY TO EROSION PROCESSES IN THE CHANNELS OF THE BELAYA AND UFA RIVERS
Tatyana FASHCHEVSKAYA, Nicolay OSIPOV

HW04 Wednesday, July 9 AM

SYSTEMS MODELING OF GLOBAL WATER DYNAMICS (ICWRS)

Location: Site C, Room 31

Convenor: T. Hori
Co-Conveners: T. Kojiri, S.P. Simonovic
Presiding Chairs: T. Hori, T. Kojiri

- 0900 HW04/09A/C31-001**
RISK ANALYSIS FOR WATER RESOURCE SYSTEM BY USING SYSTEM DYNAMICS: CASE STUDY IN YELLOW RIVER BASIN
Zongxue XU, Kuniyoshi TAKEUCHI, Hiroshi ISHIDAIRA
- 0920 HW04/09A/C31-002**
SYSTEM DYNAMICS APPROACHE FOR REGIONAL WATER RESOURCES
Toshiharu KOJIRI, Nobuchika TAMURA
- 0940 HW04/09A/C31-003**
WATER RESOURCES DYNAMICS MODEL CONSIDERING REGIONAL INTERDEPENDENCIES
Tomoharu HORI, Michiharu SHIIBA
- 1000 HW04/09A/C31-004**
MODELING HYDROSYSTEM DYNAMICS OF MAE KLONG RIVER BASIN, THAILAND
Ekasit KOSITSAKULCHAI, Pierre CHEVALLIER
- 1020 HW04/09A/C31-005**
SOLVING URBAN REGIONAL WATER HOUSEHOLD AND QUALITY PROBLEMS UNDER GLOBAL CHANGE
Volker WENZEL
- 1040 BREAK**
- 1100 HW04/09A/C31-006**
THE THEORETICAL MODEL OF OPTIMAL DIVISION OF WATER RECOURES BETWEEN DIFFERENT COUNTRIES OF CENTRAL ASIA
Andrei V. KHRISTOFOROV
- 1120 HW04/09A/C31-007**
MODELING IRRIGATION WATER REQUIREMENT USING FUZZY LOGIC
Yutthana PANKAMOLSIN, Ekasit KOSITSAKULCHAI
- 1140 HW04/09A/C31-008**
CONTINENTAL SCALE MODELING OF WATER BALANCE IN EAST EURASIA FOR EVALUATING AGRO-WATER RESOURCES
Yasushi ISHIGOOKA, Hitoshi TORITANI, Tsuneo KUWAGATA, Shinkichi GOTO, Hiroyuki OHNO
- 1200 HW04/09A/C31-009**
ASSESSING THE SIGNIFICANCE OF GLOBAL SCALE WATER STRESS INDICATORS
Martina FLOERKE, Petra DOELL
- 1220 HW04/09A/C31-010**
STATISTICAL THE ASSESSMENT OF THE WATER RESOURCES ON METEOROLOGICAL EVIDENCE. FORECAST OF ANNUAL RUNOFF FOR DIFFERENT CLIMATIC SCENARIO
Natalie LOBODA

HW08 Wednesday, July 9 AM

PARAMETER ESTIMATION TECHNIQUES (IAHS/WMO WORKING GROUP ON GEWEX WITH THE SUPPORT OF ICSW AND ICASVR)

Location: Site C, Room 28

Presiding Chairs: A. Hall, E. O'Connell

A PRIORI PARAMETER ESTIMATION AND REGIONALIZATION OF MODEL PARAMETERS

- 0900 HW08/09A/C28-001 Invited**
REGIONALIZATION OF HYDROLOGICAL MODEL PARAMETERS
Guenter BLOESCHL

- 0930 HW08/09A/C28-002**
ESTIMATION OF HYDROLOGICAL MODEL PARAMETERS USING REGIONAL INFORMATION
Andras BARDOSSY
- 0950 HW08/09A/C28-003**
REGIONALISATION OF RAINFALL-RUNOFF MODELS: IDENTIFIABILITY ANALYSIS, MODEL SELECTION AND CATCHMENT CHARACTERISTICS
Neil Robert MCINTYRE, Howard S. WHEATER, Hyosang LEE, Andrew R. YOUNG, Thorsten WAGENER

- 1010 HW08/09A/C28-004**
A PARAMETER ESTIMATION OF VIC MODEL FOR RIVER BASINS IN CHINA
Zhenghui XIE, Fengge SU

- 1030 HW08/09A/C28-005**
REGIONALIZATION OF WATER BALANCE MODEL PARAMETERS FROM GEOGRAPHIC INFORAMTION AND ITS PROCESS-BASED VERIFICATION
Yoshiyuki YOKOO, So KAZAMA, Masaki SAWAMOTO

- 1050 HW08/09A/C28-006**
REGIONALIZATION OF RAINFALL-RUNOFF MODEL PARAMETERS: APPLICATION TO NORTHEASTERN OHIO, USA
Richard M. ANDERSON, Victor I. KOREN, Seann M. REED, Michael B. SMITH, Vadim KUZMIN

- 1110 BREAK**
- 1130 MODERATED DISCUSSION**



MI03-Posters Wednesday, July 9 AM

CHEMISTRY-CLIMATE INTERACTIONS (COVERS OZONE INTERACTIONS) (ICACGP, IOC, ICCL)

Location: Site D

Presiding Chairs: D. Wuebbles, H. Akimoto

- 0900-244 MI03/09A/D-001 Poster**
INITIAL DATA COMPARISON OF SAGE III AND VARIOUS SATELLITES, GROUND-BASED AND BALLOON MEASUREMENTS
William P. CHU, Chip L. TREPTE, Joe M. ZAWODNY, Larry W. THOMASON, Ghassan TAHA, J.R. MOORE
- 0900-245 MI03/09A/D-002 Poster**
DIURNAL VARIATION ON THE SUBTROPICAL BRO
Manuel GIL, Olga PUENTEDURA, Margarita YELA
- 0900-246 MI03/09A/D-003 Poster**
LONG TERM TRENDS OF NITROGEN DIOXIDE LEVELS OBSERVED AT MID- AND HIGH-LATITUDE STATIONS FROM GROUND-BASED SPECTROMETER DATA
Daniele BORTOLI, Andrea PETRITOLI, Giorgio GIOVANELLI, Ivan KOSTADINOV, Fabrizio RAVEGNANI, Ana Maria SILVA
- 0900-247 MI03/09A/D-004 Poster**
MOVEMENT OF THE SUB-TROPICAL AND POLAR FRONTS DEDUCED FROM TOTAL OZONE RECORDS
Melanie B. FOLLETTE, Marcos F. ANDRADE, Alexander D. FROLOV, Robert D. HUDSON
- 0900-248 MI03/09A/D-005 Poster**
MODELING THE EFFECT OF A PINATUBO LIKE VOLCANIC ERUPTION WITHIN THE NEXT DECADE USING A COUPLED CHEMISTRY-CLIMATE MODEL
Hamish STRUTHERS, John AUSTIN
- 0900-249 MI03/09A/D-006 Poster**
VALIDATION OF THE NEWLY DEVELOPED CLIMATE-CHEMISTRY MODEL (SOCOL) AGAINST OBSERVED CLIMATOLOGY
Tatiana A. EGOROVA, Eugene V. ROZANOV, Thomas PETER, Werner SCHMUTZ

MI05 Wednesday, July 9 AM

LARGE SCALE PATTERNS OF ATMOSPHERIC VARIABILITY: DYNAMICS, CLIMATE IMPACTS, AND ROLE IN RECENT CLIMATE CHANGE (ICCI)

Location: Site B, Room 17

Conveners: D. Thompson, M.P. Baldwin
Presiding Chairs: D. Thompson, M. Hori

- 0900 MI05/09A/B17-001 Invited**
ON THE PHYSICAL REALITY OF ANNULAR MODES
Walter A. ROBINSON

0940 MI05/09A/B17-002
 BUDGET OF OMEGA ANGULAR MOMENTUM: ANOTHER WAY TO ASSESS THE DYNAMICS OF THE ANTARCTIC AND ARCTIC OSCILLATIONS
 Jin-Song VON STORCH

1000 MI05/09A/B17-003
 ANALYSIS AND MODELING OF THE ARCTIC OSCILLATION USING A SIMPLE BAROTROPIC MODEL WITH BAROCLINIC EDDY FORCING
 Hiroshi L. TANAKA

1020 MI05/09A/B17-004
 VERTICAL STRUCTURE OF THE ARCTIC OSCILLATION AND COLD OCEAN WARM LAND REGIMES AND THEIR ROLE IN CLIMATE CHANGE
 Susanna CORTI

1040	BREAK
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1110 MI05/09A/B17-006
 DYNAMICAL PROTOTYPE OF THE ARCTIC OSCILLATION AS REVEALED BY A NEUTRAL SINGULAR VECTOR
 Masahiro WATANABE

1130 MI05/09A/B17-007
 TOPOGRAPHIC EFFECTS ON ANNULAR VARIABILITY IN A COUPLED ATMOSPHERE-OCEAN GCM
 Seiya NISHIZAWA, Shigeo YODEN, Akio KITO

1150 MI05/09A/B17-008
 DECOMPOSITION OF THE ARCTIC OSCILLATION INTO INDEPENDENT COMPONENTS
 Atsushi MORI, Nobuaki KAWASAKI, Kensuke YAMAZAKI, Meiji HONDA, Hisashi NAKAMURA

MI09	Wednesday, July 9 AM
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NEW INSTRUMENTS AND TECHNOLOGY, ADVANCES IN REMOTE SENSING
Location: Site B, Room 22

0900 MI09/09A/B22-001
 NEW INFORMATION TECHNOLOGIES IN GEOECOLOGICAL MONITORING
 Sergey Zinovievich SAVIN, Nicolay Eduardovich KOSYKH

0920 MI09/09A/B22-002
 REAL TIME PROCESSING OF COLLECTED PARTICLES: MEASUREMENT OF PARTICLES AND PARTICLE FLUXES BY THE CLOUDSCOPE AND THE HOTPLATE
 John HALLETT

0940 MI09/09A/B22-003
 CONTRIBUTION OF HOT-SPOT EFFECT TO LAND SURFACE ALBEDO
 Alexander P. TRISHCHENKO, Yi LUO, Rasim LATIFOVIC, Zhanqing LI

1000 MI09/09A/B22-004
 INITIAL FLIGHT OF THE GEOSTATIONARY EARTH RADIATION BUDGET INSTRUMENT: FROM LAUNCH TO OPERATIONS
 Jennifer HANAFIN, J.E. RUSSELL, S. KELLOCK, E. SAWYER, B.C. STEWART, M.J. BATES, D.J. PARKER

1020	BREAK
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1050 MI09/09A/B22-005
 ASTER: A NEW TOOL FOR ESTIMATING LAND SURFACE EMISSIVITY
 Thomas SCHMUGGE, Kenta OGAWA, Frederic JACOB, Andrew N. FRENCH, Ann HSU, Jerry RITCHIE

1110 MI09/09A/B22-006
 AN END-TO-END MODELING STUDY TO GENERATE SYNTHETIC DATA CUBES FOR IMAGING SPECTRAL SENSING APPLICATIONS
 Chih-Yue Jim KAO, William Scott SMITH, Jon M. REISNER

1130 MI09/09A/B22-007
 COMBINING CROP GROWTH MODELS AND REMOTE SENSING DATA FOR CROP YIELD PREDICTION: FROM FIELD TO REGIONAL SCALES
 Yanxia ZHAO

MC03	Wednesday, July 9 AM
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DYNAMICS AND VARIABILITY OF MONSOON SYSTEMS (ICDM)
Location: Site A, Room 7

Convener: E.H. Berbery
 Co-Convener: G. Wu
 Presiding Chair: Y. Xue

0900 MC03/09A/A07-001 **Invited**
 SEASONALLY VARYING AIR-SEA INTERACTION IN THE AUSTRALIAN-INDONESIAN MONSOON
 Harry HENDON

0930 MC03/09A/A07-002
 MECHANISMS BY WHICH SEA SURFACE TEMPERATURE ANOMALIES PERTURB THE WEST AFRICAN MONSOON SYSTEM
 Kerry Harrison COOK, Edward Kalman VIZY

0950 MC03/09A/A07-003
 TROPICAL PRECIPITATION PATTERNS IN RESPONSE TO A LOCAL WARM SST AREA PLACED AT THE EQUATOR OF AN AQUA PLANET: AN ENSEMBLE STUDY
 Kensuke NAKAJIMA, Yukiko YAMADA, Masaki ISHIWATARI, Yoshi-Yuki HAYASHI

1010	BREAK
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1030 MC03/09A/A07-004
 DOES THE ANOMALOUS SST LEAD TO THE CONTRASTING CHARACTERISTICS OF THE 1993 AND 1994 EASM?
 Huang-Hsiung HSU, Wen-Shung KAU, Ren-Tzeng CHEN

1050 MC03/09A/A07-005
 INTERANNUAL INDIAN RAINFALL VARIABILITY AND INDIAN OCEAN SST
 Gabriel Andres VECCHI, D.E. HARRISON

1110 MC03/09A/A07-006
 OCEAN ROLES IN THE TRANSITION PHASES OF THE BIENNIAL INDIAN-AUSTRALIAN MONSOON TENDENCY
 Jin-Yi YU, Shu-Ping WENG, John D. FARRARA

1130 MC03/09A/A07-007
 CAN THE SST IN THE WESTERN NORTH PACIFIC AFFECT THE INTENSITY OF BAIU PRECIPITATION?
 Sophie FUKUTOME, Christoph FREI, Christoph SCHÄR

1150 MC03/09A/A07-008
 IMPACT OF INDIAN OCEAN DIPOLE AND MONSOON VARIABILITY OVER SOUTH AND EAST ASIA : OBSERVATIONAL AND MODELING ASPECTS
 Jai Ho OH, R.H. KRIPALANI, J.H. KANG

MC05	Wednesday, July 9 AM
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MIDDLE ATMOSPHERE SCIENCE (ICMA)
Location: Site A, Room 9

Presiding Chair: S. Avery

0900 MC05/09A/A09-001
 MODEL EVALUATION ON EFFECTIVE TRANSPORT ACROSS THE EXTRATROPICAL TROPOPAUSE USING TRACER RELATIONSHIPS
 Jennifer Chu-Feng WEI, Laura L. PAN, Douglas E. KINNISON, Rolando GARCIA, Donald J. WUEBBLES

0920 MC05/09A/A09-002
 TROPOSPHERE-TO-STRATOSPHERE EXCHANGE AND THE WATER VAPOUR BUDGET IN THE EXTRA-TROPICAL LOWERMOST STRATOSPHERE
 Michel S. BOURQUI, Heini WERNLI, Michael SPRENGER

0940 MC05/09A/A09-003
 MIDLATITUDE CROSS-TROPOPAUSE TRANSPORT OF WATER VAPOR AND TRACE CHEMICALS BY DEEP CONVECTIVE STORMS
 Pao K. WANG

1000 MC05/09A/A09-004
 CHANGE IN STRATOSPHERE/TROPOSPHERE EXCHANGE IN A DOUBLED CO₂ CLIMATE
 Warwick NORTON, Alan IWI

1020	BREAK
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1050 MC05/09A/A09-005 **Invited**
 ASYMMETRY IN TRACER VARIATIONS DURING THE WESTERLY AND EASTERLY SHEAR PHASES OF THE QBO IN THE TROPICAL STRATOSPHERE
 Wookap CHOI, Hyunah LEE

1120 MC05/09A/A09-006
 SEASONAL AND QBO VARIATIONS OF ASCENT RATE IN THE TROPICAL LOWER STRATOSPHERE AS INFERRED FROM HALOE TRACE GASES
 Masanori NIWANO, Koji YAMAZAKI, Masato SHIOTANI

1140 MC05/09A/A09-007
 THE QUASI BIENNIAL OSCILLATION: ANALYSIS OF THE NEW ERA-40 DATA AND A GCM STUDY
 Charlotte PASCOE, Lesley GRAY

1200 MC05/09A/A09-008
 KELVIN WAVE IN MERIDIONAL CIRCULATION AND LATERAL TRANSPORT OF ZONAL MOMENTUM
 Takeshi IMAMURA, Takeshi HORINOUCHI

WEEK B
WED
AM

SS04 Wednesday, July 9 AM

STRONG GROUND MOTION, EARTHQUAKE HAZARD AND RISK
Location: Site A, Room 3

Presiding Chairs: F. Romanelli, K. Irikura

- 0900 SS04/09A/A03-001**
STRESS SIMULATION AND OCCURRENCE OF QUATERNARY THRUSTING IN HIMALAYAS
Daya SHANKER, V.P. SINGH, Nipun KAPUR, A.I. GORSHKOV, Olga V. NOVIKOVA, V.G. KOSSOBOKOV
- 0915 SS04/09A/A03-002**
THE INFLUENCE OF LOCAL TOPOGRAPHIC RELIEF ON REGIONAL STRESS: AN EXAMPLE FROM THE RUKWA RIFT, TANZANIA
Richard Wambura FERDINAND
- 0930 SS04/09A/A03-003**
SEISMICITY OF THE QAENAT KHORASAN REGION IN EASTERN IRAN
Shayesteh MEHRABIAN, Goodarz HAMIDI
- 0945 SS04/09A/A03-004**
A HOMOGENEOUS EARTHQUAKE DATA BANK IN WESTERN MEDITERRANEAN COUNTRIES –ALGERIA, MOROCCO, TUNISIA – FROM THE RECORD SOURCES OF PAST SEISMIC EVENTS
Djillali BENOUAR
- 1000 SS04/09A/A03-005**
PROBABILISTIC EARTHQUAKE POTENTIAL MODELS TESTED AGAINST A HISTORICAL CATALOG OF JAPANESE INLAND EARTHQUAKES
Kunihiko SHIMAZAKI, Wahyu TRIYOSO
- 1015 SS04/09A/A03-006**
STUDY ON STRONG EARTHQUAKE RECURRENCE BEHAVIORS ON ENTIRETIES OF ACTIVE FAULT ZONES IN SICHUAN-YUNNAN REGION, CHINA
Guixi YI, Xueze WEN, Xiwei XU

Wednesday, July 9 PM

JSG02 Wednesday, July 9 PM

INTERDISCIPLINARY EARTH SCIENCE FROM IMPROVED GRAVITY FIELD MODELING (IAG, IAHS, IAPSO, IASPEI)
Location: Site A, Room 5

Co-Conveners: N. Florsch, J. Wahr
Presiding Chairs: G. Balmino, R. Rummel

- 1400 JSG02/09P/A05-001 Invited**
THE EFFECT OF THE GENERATION OF NEW GRAVITY MODELS FROM CHAMP, GRACE AND GOCE ON GEODESY
Reiner RUMMEL, Jakob FLURY, Thomas GRUBER
- 1425 JSG02/09P/A05-002 Invited**
IMPACT OF AIRBORNE GRAVIMETRY ON GEODESY AND OCEANOGRAPHY
Rene FORSBERG
- 1450 JSG02/09P/A05-003 Invited**
GEOID HEIGHT TIME DEPENDENCE DUE TO GLOBAL GLACIAL ISOSTASY: A FILTER FOR GRACE DATA ANALYSIS
Richard W. PELTIER
- 1515 JSG02/09P/A05-004 Invited**
TIME-VARIABLE GRAVITY: CASE STUDIES OF GEOPHYSICAL AND CLIMATIC MONITORING AND MODELING
Benjamin Fong CHAO

1540 BREAK

- 1555 JSG02/09P/A05-005 Invited**
CAN CONTINENTAL WATER MASS VARIABILITY DERIVED FROM SATELLITE GRAVITY MISSIONS BE USED TO CORRECT FOR THE LONG-WAVELENGTH HYDROLOGICAL LOADING SIGNAL IN GEODETIC TIMESERIES?
Tonie M. VAN DAM, John M. WAHR

- 1620 JSG02/09P/A05-006 Invited**
GRACE - UTILITY AND VALIDATION: MAPPING THE TIME-MEAN CIRCULATION OF THE NORTH ATLANTIC OCEAN
Steven Robert JAYNE

- 1645 JSG02/09P/A05-007**
THE GRAVITY RECOVERY AND CLIMATE EXPERIMENT: STATUS AND EARLY RESULTS
Byron TAPLEY, Christoph REIGBER

- 1700 JSG02/09P/A05-008**
SCIENTIFIC ACHIEVEMENTS FROM THE FIRST PERIOD (1997-2003) OF THE GLOBAL GEODYNAMICS PROJECT USING A WORLDWIDE NETWORK OF SUPERCONDUCTING GRAVIMETERS
Jacques HINDERER, David CROSSLEY

- 1715 JSG02/09P/A05-009**
MODELLING OCEAN MASS REDISTRIBUTIONS IN THE HADLEY CENTRE CLIMATE MODEL
Keith HAINES, Rory BINGHAM

- 1730 JSG02/09P/A05-010**
IMPACT OF NEW GRAVITY MISSIONS FOR SATELLITE ALTIMETRY APPLICATIONS
Thomas GRUBER, Jakob FLURY, Thomas PETERS, Drzen SVEHLA

- 1745 JSG02/09P/A05-011**
CO-SEISMIC GEOID AND GRAVITY CHANGES DETECTABLE BY GRAVITY SATELLITE MISSIONS
Wenke SUN, Shuhei OKUBO

JSG03 Wednesday, July 9 PM

INTERDISCIPLINARY SCIENCE FROM REMOTE SENSING - RADAR ALTIMETRY, ATSR, SAR, OCEAN COLOR AND OTHER SENSORS (IAG, IAHS, IAPSO, IASPEI, ISPRS)
Location: Site A, Room 12

Convener: P. Knudsen
Co-Convener: M. Owe

- 1400 JSG03/09P/A12-001**
METHOD OF RESERVOIR STORAGE MONITORING BY SATELLITES
Jun MAGOME, Hiroshi ISHIDAIRA, Kuniyoshi TAKEUCHI

- 1420 JSG03/09P/A12-002**
REMOTE SENSING OF LAKE ICE: LAKE BAIKAL, SPRING PHYTOPLANKTON BLOOM STUDIES
Sergei V. SEMOVSKI, Nikolay Yu. MOGILEV, Petr Yu. PUSHISTOV

- 1440 JSG03/09P/A12-003**
SURFACE SKIN TEMPERATURE DIURNAL CYCLE OVER LAND FROM COMBINED PASSIVE MICROAVE AND INFRARED SATELLITE OBSERVATIONS - APPLICATION TO SOIL MOISTURE RETRIEVAL
Filipe AIRES, Catherine PRIGENT, William B. ROSSOW

- 1500 JSG03/09P/A12-004**
CLUSTER ANALYSIS OF REMOTELY SENSED DATA FOR DISCRIMINATING SINKS AND SOURCES OF NATURAL ADMIXTURES IN CASE II WATERS
Lioudmila Y. AMETISTOVA, Genrikh S. KARABASHEV

- 1520 JSG03/09P/A12-005**
ESTIMATION OF SEASONAL PARTIAL PRESSURE CO₂ IN NORTH WEST PACIFIC OCEAN BY SHIP AND SATELLITE DATA
Takahiro OHSAWA, Keiko HANAWA, Chaofang ZHAO, Yasuhiro SUGIMORI

- 1540 JSG03/09P/A12-006**
MAPPING SEA SURFACE SALINITY IN COASTAL WATERS WITH AN AIRBORNE MICROWAVE RADIOMETER
Malcolm Lewis HERON, Derek M. BURRAGE, Thomas C. STIEGLITZ, Armin PRYTZ

1600 BREAK

- 1620 JSG03/09P/A12-007**
REMOTE SENSING & DECISION SUPPORT FOR ENVIRONMENTAL SUSTAINABILITY
Gilbert L. ROCHON, Chris JOHANSEN, Steve MAYO, Mohamed MOHAMED, Marseyas FERNANDEZ, Sarada MAJUMDER, Larry BIEHL

JSG03-Posters Wednesday, July 9 PM

INTERDISCIPLINARY SCIENCE FROM REMOTE SENSING - RADAR ALTIMETRY, ATSR, SAR, OCEAN COLOR AND OTHER SENSORS (IAG, IAHS, IAPSO, IASPEI, ISPRS)
Location: Site D

- 1640-009 JSG03/09P/D-001 Poster**
INSAR OBSERVATION OF THE AMUNDSEN BAY, ANTARCTICA
Makoto OMURA, Katsuaki KOIKE, Koichiro DOI, Kazuo SHIBUYA, Shigeru AOKI

1640-010 JSG03/09P/D-002 Poster
RESPONSE OF LAKE VOSTOK TO ATMOSPHERIC PRESSURE CHANGE
Koichiro DOI, Kazuo SHIBUYA, Shigeru AOKI, Tsutomu YAMANOKUCHI, Reinhard DIETRICH, Anja POTZSCH

1640-011 JSG03/09P/D-003 Poster
LAKE LEVEL MONITORING FROM ALTIMETRY MEASUREMENTS
Jean-Francois CRÉTAUX, Anny CAZENAVE, Franck MERCIER, Alexey KOURAEV, Benoit LEGRESY, Frederique REMY, Gaetan VINAY, Fabrice PAPA

1640-012 JSG03/09P/D-004 Poster
MICROWAVE REMOTE SENSING OF SOIL MOISTURE IN FIFE FROM 1987 TO 1988
Hiroshi MATSUYAMA, Sachiko ICHIKAWA, Tosiya NAKAEGAWA

1640-013 JSG03/09P/D-005 Poster
GLOBAL SCALE LAND HYDROLOGY MONITORING USING SATELLITE ALTIMETRY
Philippa Anne BERRY, Ralph Allen PINNOCK

1640-014 JSG03/09P/D-006 Poster
THE CLASSIFICATION OF VEGETATION OF WETLAND BASED ON REMOTE SENSING DATA, OVER KUSHIRO MARSH HOKKAIDO JAPAN
Aosier BUHE, K. TSUCHIYA, M. KANEKO, S.J. SUNG

1640-015 JSG03/09P/D-007 Poster
REMOTE SENSING OF CHLOROPHYLL A DISTRIBUTIONS AND WATER CONDITIONS IN THE GULF OF TONKIN, SOUTH CHINA SEA
DanLing (Lingzis) TANG, Hiroshi KAWAMURA

1640-016 JSG03/09P/D-008 Poster
INFLUENCE OF WATERS OF DIFFERENT OPTICAL DOMAINS ON THE PHOTOSYNTHETICALLY ACTIVE RADIATIONS
Harilal Bhaskara MENON

1640-017 JSG03/09P/D-009 Poster
EFFECTS OF THE TROPOSPHERIC DUST ON THE SEA SURFACE TEMPERATURE DERIVATION FROM SATELLITE OBSERVATION
Myoung-Hwan AHN, Ja-Min GU, Ju-Yong CHUNG, Jae-Chul NAM

1640-018 JSG03/09P/D-010 Poster
REGIONAL ACE ANALYSIS OF SEA LEVEL, SEA SURFACE TEMPERATURE, AND SEAWIFS OCEAN COLOR DATA IN THE NORTH SEA
Per KNUDSEN, Klaus B. HILGER, Allan A. NIELSEN, Ole B. ANDERSEN, Thomas KNUDSEN

1640-019 JSG03/09P/D-011 Poster
A MESOSCALE FEATURES OF THE SOUTH PACIFIC CURRENT OBSERVED FROM SATELLITE ALTIMETRY AND IN SITU OBSERVATIONS
Alexander M. SIROTA, Sergey A. LEBEDEV

1640-020 JSG03/09P/D-012 Poster
OCEAN TIDE MODELING IN THE SOUTHERN OCEAN
Yuchan YI, C.K. SHUM, Sangho BAEK, Yu WANG, Ole ANDERSEN

1640-021 JSG03/09P/D-013 Poster
CROSS-CALIBRATION OF ENVISAT RANGE USING MULTI-SATELLITE ALTIMETRY AND TIDE GAUGE DATA
Luciana FENOGLIO-MARC

1640-022 JSG03/09P/D-014 Poster
OCEANIC FRONTS AND EDDIES ON THE SYNTHETIC APERTURE RADAR IMAGES
Andrei Yu. IVANOV

1640-023 JSG03/09P/D-015 Poster
INVESTIGATIONS OF SPACE-TIME VARIABILITY OF THE SEA LEVEL IN THE BARENTS SEA AND THE WHITE SEA BY SATELLITE ALTIMETRY DATA AND RESULTS OF HYDRODYNAMIC MODELLING
Sergey A. LEBEDEV, Oleg I. ZILBERSTEIN, Sergey K. POPOV, Olga V. TIKHONOVA

1640-024 JSG03/09P/D-016 Poster
CURRENT SHEAR MEASUREMENT BY USING SYNTHETIC APERTURE RADAR
Akitsugu NADAI

1640-025 JSG03/09P/D-017 Poster
DOES OCEAN SURFACE RADAR WORK IN THE SURF BREAK ZONE?
Malcolm Lewis HERON, Thomas C. STIEGLITZ, Arnstein PRYTZ

1640-026 JSG03/09P/D-018 Poster
MEASUREMENT OF OCEANIC VARIABLES FROM DUO-FREQUENCY ALONG-TRACK INTERFEROMETRIC SAR DATA
Duk-jin KIM, Wooil M. MOON

1640-027 JSG03/09P/D-019 Poster
OCEAN WAVE SPECTRUM MEASUREMENT BY USING AN AIRBORNE INTERFEROMETRIC SAR
Chieko KAMESHIMA, Noboru SUDO, Haruhisa SHIMODA, Yoshiaki MATSUMAE, Toshibumi SAKATA, Akitsugu NADAI, Seiho URATSUKA

1640-028 JSG03/09P/D-020 Poster
SEISMIC AND SATELLITE IMAGE ANALYSIS IN THE VICINITY OF LAKE PUMA YUMCO LOCATED IN SOUTHERN TIBETAN PLATEAU, SW CHINA
Atsushi IWASHITA, Tomohiro KAMOSHITA, Yoshifumi MISAWA, Liping ZHU

1640-029 JSG03/09P/D-021 Poster
LARGE-SCALE DISPLACEMENT CORRESPONDING TO THE 1999 CHICHI EARTHQUAKE, INSIGHTS FROM SPACE GEODETIC OBSERVATIONS
Chung-Pai CHANG, Chi-Tien WANG, Tsui-Yu CHANG, Kun-Shan CHEN, Long-Shin LIANG, Yuan-Hsi LEE

1640-030 JSG03/09P/D-022 Poster
JERS-1 SAR AND ASTER VNIR INTERPRETATION IN THE VICINITY OF HUA-TUNG LONGITUDINAL VALLEY, EAST COAST TAIWAN
Atsushi IWASHITA, Hisatoshi BABA, Susumu IIZUKA, Yu-Feng LIN, Yi-Sheng YANG, Hwa-Chu SHEU, Toshikazu MOROHOSHI, Masanao HARA

1640-031 JSG03/09P/D-023 Poster
REFINEMENT OF JERS-1'S STATE VECTORS AND CORRECTION OF SAR INTERFEROGRAM FOR THE ATMOSPHERIC DELAY EFFECT USING THE METEOROLOGICAL SIMULATION
Shigeki KOBAYASHI, Akira OTSUKA

1640-032 JSG03/09P/D-024 Poster
AIRBORNE LASER SCANNING - FOR MAPPING OF SLOPE FAILURE POTENTIAL SPOTS
Hiroshi P. SATO, Tatsuo SEKIGUCHI

1640-033 JSG03/09P/D-025 Poster
FIRST DIGISONDE 256 MEASUREMENTS AND TEC AT TUCUMAN AND COMPARISON WITH IRI PREDICTIONS
Victor Hugo RIOS, Cesar Francisco MEDINA, Blas DE HARO, Francisco SORIA, Enzo GOMEZ, Pascual PADILLA, Antonio Perez GOMEZ, Isabel LOMAS

1640-034 JSG03/09P/D-026 Poster
PLASMA DENSITY ENHANCEMENTS ASSOCIATED WITH EQUATORIAL SPREAD F (ESF)
Guan LE, C.-S. HUANG, R.F. PFAFF, S.-Y. SU, H.-C. YEH, R. A. HEELIS, F.J. RICH, M. HAIRSTON

JSA08 Wednesday, July 9 PM

EFFECTS OF SOLAR VARIABILITY ON CLIMATE CHANGE (IAGA, IAMAS)
Location: Site A, Room 8

Presiding Chairs: M. Salby, K. Kodera

1400 JSA08/09P/A08-001
TREND DISCOVERED IN TOTAL SOLAR IRRADIANCE DURING SOLAR CYCLES 21-23
Richard Clayton WILLSON

1420 JSA08/09P/A08-002 Invited
DYNAMICAL RESPONSE TO THE SOLAR CYCLE
Kunihiko KODERA

1450 JSA08/09P/A08-003
A MODEL OF SOLAR SPECTRAL IRRADIANCE NEAR MG II
Jeff Stanley MORRILL, Kenneth P. DERE, Clarence M. KORENDYKE, Linton E. FLOYD, Judith L. LEAN

1510 JSA08/09P/A08-004
WAVELET TRACING OF SOLAR, GEOMAGNETIC AND CLIMATE CHANGES
Dmitri I. PONYAVIN

1525 BREAK

1550 JSA08/09P/A08-005 Invited
MODELLING THE INTERACTION OF THE SOLAR AND QUASI BIENNIAL INFLUENCE ON THE STRATOSPHERIC WINTERTIME CIRCULATION
Lesley J. GRAY, Simon CROOKS

1620 JSA08/09P/A08-006 Invited
REALISTIC SOLAR SIGNAL IN THE FUB-CMAM
Katja MATTHES, Ulrike LANGEMATZ

1650 JSA08/09P/A08-007
A MECHANISM FOR SOLAR VARIABILITY EFFECTS ON SURFACE CLIMATE
Mark P. BALDWIN

1710 JSA08/09P/A08-008
THE MANIFESTATION OF SOLAR ACTIVITY IN CLIMATE CHARACTERISTICS OF THE BAIKAL REGION
Gelii A. ZHEREBTSOV, Vladimir A. KOVALENKO

1730 JSA08/09P/A08-009
ABSORPTION PHENOMENA OF SOLAR XUV-RADIATION BY UPPER EARTH ATMOSPHERE IN THE NUMERICAL MODEL OF THE NEUTRAL ATMOSPHERE WMA01
Kirill A. BOYARCHUK, I.A. ZHITNIK, G.S. IVANOV-KHOLODNY, A.V. KARELIN, O.P. KOLOMIITSEV, A.S. TRUSHIN

WEEK B
WED
PM

JWH01

Wednesday, July 9 PM

SNOW PROCESSES: REPRESENTATION IN ATMOSPHERIC AND HYDROLOGICAL MODELS (IAHS/ICSI, IAMAS)

Location: Site C, Room 30

Presiding Chair: J. King

- 1400

JWH01/09P/C30-001

SNOWMIP (SNOW MODELS INTERCOMPARISON) : MAIN RESULTS OF THE MASS AND ENERGY BUDGETS SIMULATIONS

Pierre ETCHEVERS, Eric MARTIN, Ross BROWN, Charles FIERZ, Yves LEJEUNE, and 18 CO-AUTHORS
- 1420

JWH01/09P/C30-002

DEVELOPMENT OF MRI/JMA-SIB AND ITS IMPACT ON GLOBAL FORECAST BY GSM

Mitsuo OH'IZUMI, Masahiro HOSAKA, Masayuki HIRAI, Park BYOUNG-KWON
- 1440

JWH01/09P/C30-003

UNDERSTANDING SNOWMELT MECHANISMS OVER THE SIERRA NEVADA REGION USING THE NCAR/PSU MESOSCALE MODEL (MM5)

Jiming JIN, Norman L. MILLER
- 1500

JWH01/09P/C30-004

UNCERTAINTY IN MEASUREMENT AND MODELLING OF LONGWAVE RADIATION AND IMPLICATIONS FOR SNOWMELT

John W. POMEROY, Alexander N. GELFAN, Richard L.H. ESSERY, Jean E. SICART, Raoul J. GRANGER, Janet P. HARDY
- 1520

JWH01/09P/C30-005

WATER AND ENERGY BUDGET IN THE SOUTHERN MOUNTAINOUS REGION OF WETERN SIBERIA

Jumpei KUBOTA, Kazuyoshi SUZUKI, Tetso OHATA, Varely VUGLINSKY
- 1540

JWH01/09P/C30-006

SPATIAL ENERGY BALANCE SNOWMELT MODELING OF THE ECHAUREN AND TOKOPAH WATERSHEDS

Constance M. BROWN-MITIC, Noah MOLOTCH, Roger BALES

- 1600**
- BREAK**
- 1630

JWH01/09P/C30-007

COMPOSITE MODELLING OF SNOWMELT AND WATER EQUIVALENT OF SNOW

Shigeo SUIZU
- 1650

JWH01/09P/C30-008

THE ANALYSIS OF THE SNOW WATER EQUIVALENT DISTRIBUTION USING SNOW MODEL AND SATELLITE INFORMATION OF SNOW IN TOHOKU DISTRICT IN JAPAN

Takehiro TOTSUKA, Yoshihiro ASAOKA, So KAZAMA, Masaki SAWAMOTO
- 1710

JWH01/09P/C30-009

A NEW SNOW COVER PARAMETERIZATION FOR USE IN GCMS

Andreas ROESCH

JSM04

Wednesday, July 9 PM

TERRESTRIAL ECOSYSTEMS, ATMOSPHERIC COMPOSITION, CLIMATE (IAMAS, IAGA)

Location: Site B, Room 23

Presiding Chair: H. Akimoto

- 1400

JSM04/09P/B23-001

CARBON AND NITROGEN WET DEPOSITION IN AMAZON BASIN: CONSEQUENCES OF LAND-USE CHANGES

Luciene Lorandi LARA, Paulo ARTAXO, Theotonio PAULIQUEVIS
- 1430

JSM04/09P/B23-002

VARIABILITY IN GLOBAL AND DIFFUSE PAR AT A TROPICAL SOUTHEAST ASIAN SITE AND ITS SIGNIFICANCE FOR TERRESTRIAL PHOTOSYNTHESIS

Dennis G. DYE, Yoshifumi YASUOKA, Akkaneeewut CHABANGBORN, Boossarasiri THANA
- 1500

JSM04/09P/B23-003

METHANE EMISSION FROM RICE FIELDS IN MAINLAND CHINA: AMOUNT, SEASONAL AND SPATIAL DISTRIBUTION

Xiaoyuan Yan YAN, Zucong CAI, Toshimasa OHARA, Hajime AKIMOTO

- 1530**
- BREAK**
- 1600

JSM04/09P/B23-004

ANNUAL VARIATION AND LONG-TERM OF GREENHOUSE GASES CONCENTRATION AND IT'S CAUSES IN THE BACKGROUND AREA OF THE KOREAN PENINSULA

Jae-Cheon CHOI, Hyo-Sang CHUNG, Sung-Nam OH, So-Young BANG, sang-Soon PARK
- 1630

JSM04/09P/B23-005

INFLUENCES OF THE WARMING ON PLANT PHENOLOGY IN EAST ASIA

Futoshi MATSUMOTO, Yoshitaka FUKUOKA

- 1700

JSM04/09P/B23-006

VARIABILITY OF AEROSOL PARAMETERS IN NORTHERN INDIA

Sagnik DEY, Ramesh P. SINGH, Brent HOLBERN
- 1730

JSM04/09P/B23-007

WEATHER DROUGHT INDEX AND FIRE IN BERBAK PARK, SUMATRA

Asril Asril ASRIL, Daniel MURDIYARSO, Bambang Hero SAHARJO

JSM04-Posters

Wednesday, July 9 PM

TERRESTRIAL ECOSYSTEMS, ATMOSPHERIC COMPOSITION, CLIMATE

Location: Site D

- 1400-038

JSM04/09P/D-001

Poster

THE CLIMATIC SIGNIFICANCE OF $\delta^{13}C$ IN TREE-RING ON TIBET AND THE IMPLICATIONS FOR CLIMATIC RECONSTRUCTIONS

Xiaohong LIU, Dahe QIN, Xuemei SHAO, Tuo CHEN, Jiawen REN
- 1400-039

JSM04/09P/D-002

Poster

STABLE CARBON ISOTOPE EXCHANGE BETWEEN THE TERRESTRIAL BIOSPHERE AND ATMOSPHERE SIMULATED BY AN ECOSYSTEM MODEL

Akihiko ITO
- 1400-040

JSM04/09P/D-003

Poster

THERMAL HISTORY RECONSTRUCTION AND THERMAL MATURATION OF HYDROCARBON-BEARING FORMATION IN EAST CHINA SEA BASIN

Shengbiao HU, Shuchun YANG, Dongsheng CAI, Xiaojie FENG
- 1400-041

JSM04/09P/D-004

Poster

INFLUENCE OF WATER SOLUBLE SALTS ON THE ICE NUCLEATING ABILITY OF AGI-AGCL-CUI SYSTEM

Sivanesan SUBRAMANIAN, Balasubramaniam NALLATHAMBI, Ramamurthy VEERAPPAN
- 1400-042

JSM04/09P/D-005

Poster

A NUMERICAL STUDY OF GLOBAL CO2 INTERACTIONS USING SIM-CYCLES BIOSPHERE MODEL

Takao IGUCHI, Hideji KIDA
- 1400-043

JSM04/09P/D-006

Poster

TRACE ELEMENTS IN ANDEAN BACKGROUND AEROSOL FROM A NEVADO ILLIMANI ICE CORE, BOLIVIA, FROM 1919 TO 1999

Alexandre L. CORREIA, Robert J. DELMAS, Remi FREYDIER, Jefferson C. SIMOES, Jean-Denis TAUPIN, Bernard DUPRE, Paulo ARTAXO
- 1400-044

JSM04/09P/D-007

Poster

THE IMPACT OF BIOMASS BURNING SOOT OVER TAIWAN

Hsiao-Wen LIN, Jen-Ping CHEN
- 1400-045

JSM04/09P/D-008

Poster

CHEMICAL AND PHYSICAL PROPERTIES OF ASIAN DUST IN KOREA PENINSULAR

Ki-Jun PARK, Jae-Cheon CHOI, So-Young BANG, Sung-Nam OH, Byoung-Cheol CHOI, Kyoung-Sook CHO
- 1400-046

JSM04/09P/D-009

Poster

VARIABILITY OF TRACE GAS CONCENTRATIONS DURING THE LBA/SMOCC 2002 BIOMASS BURNING EXPERIMENT IN THE AMAZON BASIN

Luciana Vanni GATTI, Amelia YAMAZAKI, Carlos A. Bauer AQUINO, Lizia MURBACH, Paulo ARTAXO, Duli CHAND, Meinrat ANDREAE
- 1400-047

JSM04/09P/D-010

Poster

OZONE PROFILES AND AEROSOL MEASUREMENTS OVER THE WESTERN AMAZON DURING THE DRY SEASON

Ana Maria CORDOVA, L.V. GATTI, P. ARTAXO, K.M. LONGO, A. SILVA DIAS, M.O. ANDREAE, G. NISHIOKA
- 1400-048

JSM04/09P/D-011

Poster

ASSESMENT OF DAILY EVAPOTRANSPIRATION USING REMOTE SENSING DATA

Gouldaria Karimovna NOURBAEVA, So KAZAMA, Masaki SAWAMOTO
- 1400-049

JSM04/09P/D-012

Poster

MEASUREMENTS OF ISOPRENE FLUXES BY A GRADIENT TECHNIQUE IN DIFFERENT REGIONS IN THE AMAZON FOREST

Carla R. TROSTDORF, Luciana V. GATTI, Amelia YAMAZAKI, Carlos A.B. AQUINO, Williams C. MARTINS, Lizia L. MURBACH
- 1400-050

JSM04/09P/D-013

Poster

GLOBAL CHANGE AND CHANGING CHEMISTRY OF THE ATMOSPHERE: A STUDY WITH REFERENCE TO IMPACT OF HUMAN ACTIVITIES ON AIR POLLUTION IN MAJOR METROPOLITAN CITIES OF INDIA: IDENTIFICATION OF MAJOR DIMENSIONS

Shanmuganandan SAMARAJALINGAM
- 1400-051

JSM04/09P/D-014

Poster

WEST SIBERIA REGION AND LARGE URBAN AREA IN NORTHERN EUROPE (ST.-PETERSBURG) AS ATMOSPHERIC METHANE SOURCES

Svetlana V. JAGOVKINA, Igor L. KAROL, Alexander I. RESHETNIKOV, Nina N. PARAMONOVA, Victor E. LAGUN

- 1400-052 JSM04/09P/D-015 Poster**
ATMOSPHERIC TRACE GAS AND AEROSOLS MEASUREMENTS DURING WINTERS OF 1999 TO 2002 IN THE URBAN AREA OF SAO PAULO, BRAZIL
Angelica PRETTO, Luciana Vanni GATTI, Luiz Augusto DE PAULA REINO, Jose Roberto ROGERO, Amelia YAMAZAKI, Paulo ARTAXO
- 1400-053 JSM04/09P/D-016 Poster**
SOLAS ACTIVITIES IN CHINA
Guangyu SHI, Hui WANG, Xiu-Lin WANG, Hui-Wang GAO, Xin LI
- 1400-054 JSM04/09P/D-017 Poster**
CHARACTERISTICS, TREND AND CHEMICAL COMPOSITION OF ATMOSPHERIC PRECIPITATION AT SHAHROOD, NORTHEAST IRAN
Gholam Abbas KAZEMI, Hossein MEHDIZADEH

JSM10-Posters Wednesday, July 9 PM

CRYOSPHERE-CLIMATE INTERACTIONS (IAMAS [ICCL, ICPM], IAPSO, IAHS)
Location: Site D

- 1400-055 JSM10/09P/D-001 Poster**
SEASONAL VARIATION OF SURFACE FLUXES OBSERVED OVER TUNDRA IN EASTERN SIBERIA
Yuji KODAMA, Norifumi SATO, Hironori YABUKI, Yoshiyuki ISHII, Mutsumi NOMURA, Tetsuo OHATA
- 1400-056 JSM10/09P/D-002 Poster**
THE SURFACE MASS BALANCE OF MD364, ANTARCTICA ESTIMATED FROM THE ICE CORE ANALYSE
Makoto IGARASHI, Hideaki MOTOYAMA, Teruo FURUKAWA
- 1400-057 JSM10/09P/D-003 Poster**
ONE-DIMENSIONAL NONSTATIONARY MODEL OF SEA ICE
Boris Viacheslavovich IVANOV, Oleg Mihailovich ANDREEV
- 1400-058 JSM10/09P/D-004 Poster**
IMPACT OF SEA ICE DYNAMICS ON THE SEA ICE DISTRIBUTION
Tomoo OGURA, Ayako ABE-OUCHI, Hiroyasu HASUMI
- 1400-059 JSM10/09P/D-005 Poster**
LONG-TERM AND INTER-ANNUAL VARIABILITY OF ICE CONDITION IN THE OKHOTSK - BERING-CHUKCHI SEAS
Larisa S. MUKTEPAVEL, Roger COLONY, Vladimir PLOTNIKOV
- 1400-060 JSM10/09P/D-006 Poster**
SENSITIVITY OF A COUPLED ICE SHELF - OCEAN SYSTEM TO CHANGES IN CLIMATIC BOUNDARY CONDITIONS
Henner SANDHAEGGER, Klaus GROSFELD, Manfred A. LANGE, Hartmut H. HELLMER
- 1400-061 JSM10/09P/D-007 Poster**
RELATIONSHIPS BETWEEN SEA ICE AND PRESSURE DISTRIBUTION IN SEA ICE DECREASING PERIOD AROUND THE SEA OF OKHOTSK
Takashige KAWAI
- 1400-062 JSM10/09P/D-008 Poster**
ANNUAL VARIATION OF ACTIVE LAYER IN ALASKA
Takeshi SATO, Kenji YOSHIKAWA, Atsushi SATO
- 1400-063 JSM10/09P/D-009 Poster**
SPATIAL DISTRIBUTION OF ABLATION ON KORYTO GLACIER, KAMCHATKA, RUSSIA
Keiko KONYA, Takane MATSUMOTO, Renji NARUSE
- 1400-064 JSM10/09P/D-010 Poster**
PRECIPITATION CHANGE IN CENTRAL HIMALAYAS OVER THE PAST 300-YEAR
Ke Qin DUAN

JSM14-Posters Wednesday, July 9 PM

DYNAMICS AND PREDICTABILITY OF SEVERE WEATHER EVENTS (IAMAS [ICDM, ICCP], IAHS)
Location: Site D

- 1400-065 JSM14/09P/D-001 Poster**
STRUCTURE OF RAINDROP SIZE DISTRIBUTIONS FROM POLARIMETRIC RADAR VARIABLES IN A TROPICAL SQUALL LINE
S.-G. PARK, K. IWANAMI, M. MAKI, R. MISUMI, T.D. KEENAN, H. MORIWAKI
- 1400-066 JSM14/09P/D-002 Poster**
EXTRATROPICAL TRANSITION OF TROPICAL CYCLONES: CANADIAN FORECAST CHALLENGE AND RESEARCH EFFORTS
James David ABRAHAM, Walter STRAPP, Chris FOGARTY
- 1400-067 JSM14/09P/D-003 Poster**
A DIAGNOSTIC CASE STUDY OF EXTRATROPICAL TRANSITION OVER EAST ASIA
Chih-Shin LIU, George Tai-Jen CHEN

- 1400-068 JSM14/09P/D-004 Poster**
REGIONAL NUMERICAL SIMULATIONS AND VALIDATION OF A RAINFALL EXTREME EVENT USING TWO DIFFERENT CUMULUS PARAMETRIZATION
Giovanni DOLIF NETO, Tercio AMBRIZZI

- 1400-069 JSM14/09P/D-005 Poster**
BAIU HUNTER 2003 IN KYUSHU BY AEROSONDE
Tetsuo NAKAZAWA

- 1400-070 JSM14/09P/D-006 Poster**
SHORT-RANGE RAINFALL FORECAST WITH QUANTITATIVE PRECIPITATION MODEL
Jai Ho OH, Ok-Yeon KIM, Hanse HANSE YI, Tae-Kuk KIM, Ryohei MISUMI

- 1400-071 JSM14/09P/D-007 Poster**
STRUCTURE OF CUMULONIMBUS CLOUDS DEVELOPED OVER THE SLOPE OF MOUNTAIN IN SUMMER
Tetsuya SANO, Kazuhisa TSUBOKI, Ichiro TAMAGAWA

- 1400-072 JSM14/09P/D-008 Poster**
A MESOSCALE SIMULATION STUDY OF A HEAVY RAIN EVENT OVER SOUTHERN TAIWAN IN MEIYU SEASON
Lisa T.C. CHANG, George T.J. CHEN

- 1400-073 JSM14/09P/D-009 Poster**
BAIU-FRONTAL MESOSCALE CONVECTIVE SYSTEMS IN THE LEEWARD SIDE OF SMALL ISLANDS (KOSHIKIJIMA LINES) OBSERVED WITH A BOUNDARY LAYER RADAR AND RAWINSONDES
Yasuko UMEMOTO, Michihiro TESHIBA, Yoshiaki SHIBAGAKI, Hiroyuki HASHIGUCHI, Yoshinobu TANAKA, Manabu D. YAMANAKA

- 1400-074 JSM14/09P/D-010 Poster**
OBSERVATIONAL STUDY OF THE OROGRAPHIC EFFECT ON THE PROPAGATION OF CONVECTIVE SYSTEMS IN NARA-OSAKA AREA
Ken-ichiro ARAI, Masayuki KAWASHIMA, Yasushi FUJIYOSHI, Masahito ISHIHARA

- 1400-075 JSM14/09P/D-011 Poster**
STRUCTURE OF MESOSCALE CONVECTIVE SYSTEMS OBSERVED WITH UHF RADAR /INTEGRATED SOUNDING SYSTEM DURING THE SOUTH CHINA SEA MONSOON EXPERIMENT (SCSMEX) AND THE GREEN ISLAND MESOSCALE EXPERIMENT(GIMEX)
Pay-Liam LIN, Hsin-Hon LIN

- 1400-076 JSM14/09P/D-012 Poster**
HEAVY RAINFALL PRODUCED BY A LONG-LIVED LINE-SHAPED PRECIPITATING CONVECTIVE-CLOUD SYSTEM
Sachie KANADA, Kazuhisa TSUBOKI, Haruya MINDA

- 1400-077 JSM14/09P/D-013 Poster**
CHARACTERISTICS OF ENVIRONMENT DETERMINING LIFETIME OF CONVECTIVE CELLS WITHIN MESOSCALE CONVECTIVE SYSTEM IN HUMID SUBTROPICAL REGION
Shingo SHIMIZU, Hiroshi UYEDA, Kazuhisa TSUBOKI, Taro SHINODA, Yoshimasa TAKAYA, Teruyuki KATO, Masanori YOSHIKAWA, Hiroyuki YAMADA, Biao GENG

- 1400-078 JSM14/09P/D-014 Poster**
THE APPLICATIONS OF NONLINEAR OPTIMIZATION TO THE PREDICTABILITY OF NUMERICAL WEATHER PREDICTION
Mu MU, Wansuo DUAN, Jiacheng WANG

- 1400-079 JSM14/09P/D-015 Poster**
STATISTICAL ANALYSIS OF DUST STORMS IN THE ARAL SEA REGION.
Lyudmila Yur'evna SHARDAKOVA

- 1400-080 JSM14/09P/D-016 Poster**
APPLICATION OF A NEW WIND GUST PARAMETERISATION. MULTI-SCALE CASE STUDIES PERFORMED WITH THE CANADIAN RCM
Stéphane GOYETTE, Olivier BRASSEUR, Martin BENISTON

- 1400-081 JSM14/09P/D-017 Poster**
HINDCAST SIMULATIONS OF SEVERE WEATHER EVENTS BY A HIGH-RESOLUTION ATMOSPHERIC GENERAL CIRCULATION MODEL ON THE EARTH SIMULATOR CASE 1: THE AUGUST 2002 STORMS
Wataru OHFUCHI, Takeshi ENOMOTO

- 1400-082 JSM14/09P/D-018 Poster**
HINDCAST SIMULATIONS OF SEVERE WEATHER EVENTS BY A HIGH-RESOLUTION ATMOSPHERIC GENERAL CIRCULATION MODEL ON THE EARTH SIMULATOR. CASE 2: THE NOVEMBER 2002 STORMS
Takeshi ENOMOTO, Wataru OHFUCHI

- 1400-083 JSM14/09P/D-019 Poster**
SUMMER SEVERE WEATHER PREDICTABILITY IN SOUTHERN ONTARIO - A DOPPLER RADAR PERSPECTIVE
David Ronald HUDAK, Norman DONALDSON, Sudesh BOODOO, Paul JOE, Robert PATERSON

**WEEK
B
WED
PM**

1400-084	JSM14/09P/D-020	Poster
USING ISENTROPIC AND PV TECHNIQUES TO ANTICIPATE THE EFFECTS OF A STRONG UPPER COLD FRONT Chris DOYLE		
1400-085	JSM14/09P/D-021	Poster
AN AUTOMATED SYNOPTIC CLIMATOLOGICAL PROCEDURE TO PREDICT FREEZING RAIN: APPLICATION FOR OTTAWA, ONTARIO Chad Shouquan CHENG, Heather AULD, Guilong LI, Joan KLAASSEN, Bryan TUGWOOD		
1400-086	JSM14/09P/D-022	Poster
SYNOPTIC TYPING AND ITS APPLICATION TO ANALYSIS OF FREEZING RAIN EVENTS IN ONTARIO, CANADA AND THE NORTHEASTERN UNITED STATES Chad Shouquan CHENG, Joan KLAASSEN, Heather AULD, Guilong LI, Qian LI		
1400-087	JSM14/09P/D-023	Poster
SNOWFALL AROUND NAGAOKA CLASSIFIED BY SNOW-ECHO MODES Sento NAKAI, Koyuru IWANAMI, Ryohei MISUMI, Sang-Goon PARK, Masujiro SHIMIZU, Toshiichi KOBAYASHI		
1400-088	JSM14/09P/D-024	Poster
OBSERVATIONAL AND NUMERICAL STUDIES OF A POLAR LOW FORMED OVER THE JAPAN SEA ON 27 JANUARY 2001 Syugo HAYASHI, Masanori YOSHIZAKI, Teruyuki KATO, Hisaki EITO		
1400-089	JSM14/09P/D-025	Poster
DEVELOPMENT PROCESSES OF COASTAL SNOWBANDS OBSERVED DURING WMO-01 Tetsuya KAWANO, Tatsuya TANAKA, Masanori YOSHIZAKI, Teruyuki KATO, Hisaki EITO, Yoshinobu TANAKA, Ken-ichi KUSUNOKI, Koyuru IWANAMI		
1400-090	JSM14/09P/D-026	Poster
VORTEX CLOUD STREET AND ITS EVOLUTION OVER THE WESTERN OFFSHORE OF HOKKAIDO, JAPAN Yoshio ASUMA, Atsuo TSUBOTA		
1400-091	JSM14/09P/D-027	Poster
EXPLOSIVELY DEVELOPED CYCLONES AND WATER TRANSPORTATION OVER THE NORTHWESTERN PACIFIC REGION Yoshio ASUMA, Akira YOSHIDA, Masaya KATO		
1400-092	JSM14/09P/D-028	Poster
A VERIFICATION OF ICEBERG DRIFT OFF CANADA'S EASTERN COAST Thomas CARRIERES, Mohamed SAYED, Stuart SAVAGE, Greg CROCKER		
1400-093	JSM14/09P/D-029	Poster
CLIMATE CHANGE AND ITS IMPACT ON MOUNTAINOUS REGION: A STUDY OF SNOW AND ICE IN HIMALAYAN MOUNTAIN ECOSYSTEM AND ITS IMPACT Shanmuganandan SAMARAJALINGAM		

JSP04

Wednesday, July 9 PM

ARCTIC ENVIRONMENT CHANGE (IAPSO, IAMAS, IAHS)

Location: Site A, Room 6

Presiding Chairs: J. Wang, M. Ikeda

1400	JSP04/09P/A06-001
A COUPLED SEA ICE-OCEAN MODEL OF BAFFIN BAY AND THE NORTH WATER POLYNIA Todd E. ARBETTER, Lawrence A. MYSAK, Blandine L'HEVEDER	
1415	JSP04/09P/A06-002
ANNUAL VARIATION OF SEA-ICE DRAFT DISTRIBUTION AT THE NORTH POLE ENVIRONMENTAL OBSERVATORY Richard E. MORITZ, Rebecca WOODGATE, Knut AAGAARD, Jamie MORISON	
1430	JSP04/09P/A06-003
BASAL HEAT FLUX NEAR THE NORTH POLE DURING THE SUMMER OF 2002 Miles G. MCPHEE, Takashi KIKUCHI, James H. MORISON, Timothy STANTON	
1445	JSP04/09P/A06-004
DENSE WATER TRANSPORT ON BOTTOM SLOPE IN HIGH LATITUDE Jun TAKAHASHI, Jia WANG, Motoyoshi IKEDA	
1500	JSP04/09P/A06-005
DEVELOPMENT OF A QUADRILATERAL SPECTRAL/HP ELEMENT OCEAN MODEL Hideaki KITAUCHI	
1545	JSP04/09P/A06-006
EVALUATION OF BE AS A TRACER OF RIVER WATER IN ARCTIC FAST ICE ZONE, CHUKCHI AND BEAUFORT SEAS Noriyuki TANAKA, Hisashi NARITA	
1600	JSP04/09P/A06-007
CHARACTERIZATION OF CHROMOPHORIC DISSOLVED ORGANIC MATTER IN THE BEAUFORT SEA: IMPLICATIONS FOR RIVER WATER INFLUENCE Celine GUEGUEN, Laodong GUO, Noriyuki TANAKA	

1615	JSP04/09P/A06-008
DETECTION OF THE CARBON DIOXIDE FLUX IN THE AIR-SEA ICE-WATER SYSTEM: THE AMERASIAN ARCTIC Igor P. SEMILETOV, Alexander P. MAKSHAS	
1630	BREAK
1700	JSP04/09P/A06-009
DISSOLVED AND PARTICULATE ORGANIC MATTER IN THE SOUTHEASTERN BERING SEA SHELF Laodong GUO, Tomoyki TANAKA, Deli WANG, Noriyuki TANAKA, Akihiko MURATA	
1715	JSP04/09P/A06-010
ICE ALGAE PRODUCTION PROCESSES IN THE COASTAL FAST ICE IN THE WESTERN ARCTIC OCEAN Kyung-Hoon SHIN, Noriyuki TANAKA, Tomoyuki TANAKA, Terry WHITLEDGE	
1730	JSP04/09P/A06-011
ONE-DIMENSIONAL BIOGEOCHEMICAL MODEL FOR THE SOUTHEASTERN BERING SEA Clara Jodwalis DEAL, Meibing JIN, Jia WANG, Zhenwen WAN, Noriyuki TANAKA	
1745	JSP04/09P/A06-012
LATEST ESTIMATION OF PRIMARY PRODUCTIVITY IN THE ARCTIC OCEAN UNDER THE CONSIDERATIONS OF SEA-ICE CONDITIONS AND ITS YEAR TO YEAR CHANGE Tohru IKEYA, Masayuki Mac TAKAHASHI	

JSP04a-Posters

Wednesday, July 9 PM

ARCTIC ENVIRONMENT CHANGE (IAPSO, IAMAS, IAHS)

Location: Site D

1400-094	JSP04a/09P/D-001	Poster
TRENDS IN PHYTOPLANKTON AND NUTRIENTS OF LAKE BAIKAL DUE TO GLOBAL WARMING Mikhail N. SHIMARAEV, Sergei V. SEMOVSKI, Valentina N. DOMYSHEVA, Olga I. BELYH		
1400-095	JSP04a/09P/D-002	Poster
INTERANNUAL VARIATIONS OF CO ₂ , CH ₄ AND N ₂ O FLUXES IN BOREAL FOREST SOILS SINCE FROSTFIRE BURNING EXPERIMENT, CENTRAL ALASKA Yongwon KIM, Noriyuki TANAKA		
1400-096	JSP04a/09P/D-003	Poster
ORIGIN AND CONTENT OF METHANE IN SIBERIAN PERMAFROST DEPOSITS Anatoli BROUCHKOV, Masami FUKUDA		
1400-097	JSP04a/09P/D-004	Poster
MASS, HEAT AND SALT BALANCES IN THE EASTERN BARENTS SEA OBTAINED BY INVERSION OF A HYDROGRAPHIC SECTION Gleb PANTELEEV, Motoyoshi IKEDA, Dmitri NECHAEV, Max YAREMCHUK		
1400-098	JSP04a/09P/D-005	Poster
RELATIONSHIP BETWEEN SIBERIAN SPRING SURFACE AIR TEMPERATURE AND SUMMER ATMOSPHERIC CIRCULATION Shinji MATSUMURA, Koji YAMAZAKI		
1400-099	JSP04a/09P/D-006	Poster
PRODUCTION AND FATE OF DIMETHYLSULFONIOPROPIONATE (DMSP) IN ARCTIC FAST ICE Naoaki UZUKA		

JSP08

Wednesday, July 9 PM

COASTAL PROCESSES AND STORM SURGES (IAPSO, IAMAS, LOICZ[IGBP])

Location: Site B, Room 19

Presiding Chair: T. Yanagi

1400	JSP08/09P/B19-001	Invited
NET SAND TRANSPORT BY TIDAL PUMPING IN A MACROTIDAL ESTUARY Colin F. JAGO		
1430	JSP08/09P/B19-002	
COASTAL ESTUARINE-LAGOON SYSTEM BEHAVIOUR IN RESPONSE TO TYPHOON EVENTS, EASTERN HAINAN ISLAND, CHINA Shu GAO		
1450	JSP08/09P/B19-003	
ESTIMATION OF LONGSHORE SEDIMENT TRANSPORT RATE OFF DAMIETTA HARBOR, EGYPT Sayed H. SHARAF EL-DIN, Fahmy Mohamed EID		
1510	JSP08/09P/B19-004	
UNSTEADY DYNAMICS OF EDGE WAVES Efim PELINOVSKY, Andrey KURKIN		

1600 JSP08/09P/B19-005
STATISTICS OF EXTREME WINDS; STORM SURGES AND OCEAN WAVES
ALONG THE NORTH SEA COASTLINE, 1960 UNTIL TODAY
Hans VON STORCH, Ralf WEISSE, Arnt PFIZENMAYER, Frauke FESER, Saskia
ESSELBORN, Trygve ASPELIEN

1620 JSP08/09P/B19-006
CLIMATOLOGY OF STORM SURGES IN THE ARCTIC OCEAN
Andrey PROSHUTINSKY, Igor ASHIK, Tatiana PROSHUTINSKY

1640 JSP08/09P/B19-007
THE DEVELOPMENT OF A STORM SURGE MODEL INCLUDING EFFECT OF
WAVE SET UP FOR OPERATIONAL FORECASTING
Nadao KOHNO, Masakazu HIGAKI, Tatsuo KONISHI

1700 JSP08/09P/B19-008
LOICZ-RELATED STUDY IN THE CHINESE ACADEMY OF SCIENCES
Fan WANG, Dunxin HU

1720 JSP08/09P/B19-009
TODOS OS SANTOS BAY: AN OCEANOGRAPHIC CHARACTERIZATION
BASED ON IN SITU DATA AND NUMERICAL SIMULATIONS
Mauro CIRANO, Guilherme Camargo LESSA

1740 JSP08/09P/B19-010
EFFECTS OF WINDS, TIDES, AND STORM SURGES ON OCEAN SURFACE
WAVES IN THE JAPAN/EAST SEA
Wei ZHAO, Shuyi S. CHEN, Cheryl Ann BLAIN, Jiwei TIAN

JSP08-Posters Wednesday, July 9 PM

COASTAL PROCESSES AND STORM SURGES (IAPSO, IAMAS, LOICZ[IGBP])
Location: Site D

Presiding Chair: T. Yanagi

1400-100 JSP08/09P/D-001 Poster
ECOLOGICALLY SUSTAINABLE INTEGRATED COASTAL DEVELOPMENT IN
BANGLADESH: PRESENT PRACTICES, ITS CONSEQUENCES AND A POLICY
FRAMEWORK
Md. SALEQUZZAMAN

1400-101 JSP08/09P/D-002 Poster
BLACK SAND CONCENTRATIONS AND COASTAL PROCESSES OF
AZEMMOUR BEACH AND OUM ER RBIA ESTUARY, MOROCCAN ATLANTIC
COAST
Nadia MHAMMDI, Addi AZZA

JSP10 Wednesday, July 9 PM

ROTATING AND STRATIFIED FLUIDS (IAPSO, IAGA, IAMAS, SEDI)
Location: Site B, Room 21

1400 JSP10/09P/B21-001 Invited
GRAVITY CURRENTS AND LENSES IN A ROTATING STRATIFIED AMBIENT -
NUMERICAL SIMULATIONS
Marius UNGARISH, Herbert E. HUPPERT

1420 JSP10/09P/B21-002
GRAVITY CURRENTS AND LENSES IN A ROTATING STRATIFIED AMBIENT -
SHALLOW-WATER THEORY
Herbert E. HUPPERT, Marius UNGARISH

1440 JSP10/09P/B21-003
STABILITY AND EVOLUTION OF DENSE CURRENTS ON SLOPING
TOPOGRAPHY
Bruce R. SUTHERLAND, Kerianne YEWCHUCK, Joshua NAULT, Gordon E.
SWATERS

1500 JSP10/09P/B21-004
BAROCLINIC INSTABILITY OF COASTAL CURRENTS AND VORTICES IN
LABORATORY EXPERIMENTS
Emmanuelle THIVOLLE-CAZAT, Joel SOMMERIA, Martin GALMICHE

1520 JSP10/09P/B21-005
WAVE GENERATION BY INTRUSIONS IN TWO-LAYER AND CONTINUOUSLY
STRATIFIED FLUIDS
Morris R. FLYNN, Patrick KYBA, Bruce R. SUTHERLAND

1540 JSP10/09P/B21-006
A NUMERICAL STUDY ON MEDDY FORMATION
Hidenori AIKI, Toshio YAMAGATA

1600 BREAK

1620 JSP10/09P/B21-007
ROTATIONAL SUPPRESSION OF RAYLEIGH-BENARDAND RAYLEIGH-
TAYLOR INSTABILITY
Paolo ORLANDI

1640 JSP10/09P/B21-008
CONVECTION IN SMALL BASINS
William K. DEWAR

1700 JSP10/09P/B21-009
TWO-DIMENSIONAL NONLINEAR HORIZONTAL CONVECTION IN A ROTATING
STRATIFIED FLUID
Atsushi MORI, Hiroshi NIINO

1720 JSP10/09P/B21-010
FLOW REGIMES OF NON-LINEAR HEAT ISLAND CIRCULATION
Hiroshi NIINO

1740 JSP10/09P/B21-011
TRANSVERSE ROLL CONVECTION FORMED IN A ROTATING HORIZONTAL
SHEAR FLOW
Yutaka YOSHIKAWA, Kazunori AKITOMO

JSS06 Wednesday, July 9 PM

EARTH STRUCTURE AND GEODYNAMICS (IASPEI, IAVCEI, IAG, IAGA)
Location: Site A, Room 4

Presiding Chair: B. Kennett

1400 JSS06/09P/A04-001
ONSET OF SUBLITHOSPHERIC SMALL-SCALE CONVECTION AND ITS
IMPLICATIONS FOR UPPER MANTLE STRUCTURE
Jinshui HUANG, Shijie ZHONG, Jeroen VAN HUNEN

1420 JSS06/09P/A04-002
LITHOSPHERIC STRUCTURE IN THE AUSTRALIAN REGION- A SYNTHESIS OF
SURFACE WAVE AND BODY WAVE STUDIES
Brian L.N. KENNETT, Stewart FISHWICK

1440 JSS06/09P/A04-003
ON NATURE OF SEISMIC FOCAL ZONE AND RELATED TO IT
PROCESSESWITH REFERENCE TO THE KURIL-JAPAN REGION
Roman Z. TARAKANOV

1500 JSS06/09P/A04-004
COMPARISONS OF MODELLING RESULTS FROM TELESEISMIC P-WAVE
TOMOGRAPHY IN PROJECT TOR
Soren GREGERSEN, Hossein SHOMALI, Peter VOSS, Tor Working Group

1520 JSS06/09P/A04-005
STRUCTURE OF THE LITHOSPHERE-ASTHENOSPHERE AND VOLCANISM IN
ITALY AND SURROUNDINGS
Giuliano PEANZA, Antonella PONTEVIVO, Angela SARAO', Abdelkrim AOUDIA,
Angelo PECCERILLO

1540 BREAK

1600 JSS06/09P/A04-006
3D P-WAVE VELOCITY IMAGING OF THE TORNQUIST SUTURE ZONE USING
MARKOV CHAIN MONTE CARLO INVERSION AND TELESEISMIC P-PHASE
ARRIVALS
Peter VOSS, Klaus Teddy MOSEGAARD, Soren GREGERSEN

1620 JSS06/09P/A04-007
THE LITHOSPHERE AND ASTHENOSPHERE OF THE ICELAND HOT SPOT
Ingi Thorleifur BJARNASON

1640 JSS06/09P/A04-008
IMAGING THE RESULTS OF ARCHEAN TECTONIC PROCESSES: EM AND
TELESEISMIC STUDIES OF THE SLAVE CRATON, CANADA
Alan G. JONES, David SNYDER, Bill DAVIS, Wouter BLEEKER, Herman
GRUTTER, Pamela LEZAETA, Alan D. CHAVE, Rob L. EVANS, Ian J. FERGUSON

1700 JSS06/09P/A04-009
RAYLEIGH WAVE PHASE VELOCITIES BENEATH THE NORTHERN
PHILIPPINE SEA DETERMINED BY DATA FROM LONG TERM BROADBAND
OCEAN BOTTOM SEISMOGRAPHS
Takehi ISSE, Daisuke SUETSUGU, Hajime SHIOBARA, Yoshio FUKAO, Kimihiro
MOCHIZUKI, Toshihiro KANAZAWA, Hiroko SUGIOKA, Shuichi KODAIRA,
Ryota HI NO

1720 JSS06/09P/A04-010
SV-WAVESPEED HETEROGENEITY BENEATH ASIA
Keith F. PRIESTLEY, Eric DEBAYLE, Sylvana PILIDOU

1740 JSS06/09P/A04-011
UPPER MANTLE ANISOTROPY BENEATH JAPAN FROM SHEAR WAVE
SPLITTING
Maureen D. LONG, Rob D. VAN DER HILST

WEEK B
WED
PM

JSS07 Wednesday, July 9 PM

TSUNAMIS: THEIR SCIENCE, ENGINEERING AND HAZARD MITIGATION (IASPEI, IAVCEI, IAPSO)

Location: Site A, Room 2

Presiding Chairs: E. Bernard, N. Shuto, L. Kong, Y. Nishimura

1400 JSS07/09P/A02-001

STUDY ON THE TSUNAMI BEHAVIORS NEAR THE ULCHIN NUCLEAR POWER PLANT SITE

Sobeom JIN, Fumihiko IMAMURA

1415 JSS07/09P/A02-002

ESTIMATION OF AN EFFECT OF HETEROGENOUS TSUNAMI SOURCES IN A SEISMIC GAP OFF SAKATA COAST FOR A TSUNAMI HEIGHT DISTRIBUTION

Tomoyuki TAKAHASHI

1430 JSS07/09P/A02-003

ON THE REFLECTION OF AN OBLIQUELY INCIDENT BORE FROM AN INCLINED WALL

Hideo MATSUTOMI, Kentaro IMAI

1445 JSS07/09P/A02-004

A STUDY OF THE GENERATION MODEL OF TSUNAMI CAUSED BY A COLLAPSE OF VOLCANIC ISLAND- A CASE OF THE 1741 OSHIMA-OSHIMA TSUNAMI -

Kei KAWAMATA, Kazuaki TAKAOKA, Kazuhiko BAN, Fumihiko IMAMURA, Shigeru YAMAKI, Eiji KOBAYASHI

1500 JSS07/09P/A02-005

TSUNAMI SIMULATION CONSIDERING DYNAMIC OCEAN-BOTTOM DISPLACEMENT DUE TO SEISMIC FAULTING

Hiroyuki MATSUMOTO, Tatsuo OHMACHI, Hiroshi TSUKIYAMA

1515 JSS07/09P/A02-006

HYDRODYNAMIC INVERSION OF THE SOURCE PARAMETERS OF TSUNAMIGENIC EARTHQUAKES

Pedro M. MIRANDA, Carlos A. PIRES

1530 JSS07/09P/A02-007

A PROPERTIES OF THE CARRIER-GREENSPAN MAPPING APPLICATED TO WAVE RUN-UP ON A SLOPING BEACH

Victor M. KAISTRENKO

1545 BREAK

1600 JSS07/09P/A02-008

CONSTRUCTING LANDSLIDE TSUNAMI SOURCES

Philip WATTS, Stephan T. GRILLI, Francois ENET, Joseph S. WALDER, Andrea PANIZZO, Christopher F. WAYTHOMAS

1615 JSS07/09P/A02-009

WAVES AND RUN-UP GENERATED BY ATHREE-DIMENSIONAL SLIDING MASS

Costas Emmanuel SYNOLAKIS, Fred RAICHLEN, Jose BORRERO, Burak USLU,

1630 JSS07/09P/A02-010

TSUNAMI GENERATION BY NON-LINEAR PHENOMENA IN SOURCE

Mikhail A. NOSOV, Sergey V. KOLESOV, Sergey N. SKACHKO

1645 JSS07/09P/A02-011

A SHARED-USE, LARGE-SCALE, MULTIDIRECTIONAL WAVE BASIN FOR TSUNAMI RESEARCH

Solomon YIM, Daniel COX, Charles SOLLITT, Cherri PANCAKE, Harry YEH

JSS07a-Posters Wednesday, July 9 PM

TSUNAMIS: THEIR SCIENCE, ENGINEERING AND HAZARD MITIGATION (IASPEI, IAVCEI, IAPSO)

Location: Site D

Presiding Chairs: L. Kong, Y. Nishimura

1700-102 JSS07a/09P/D-001

Poster

MODELING THE 1741 TSUNAMI FROM OSHIMA-OSHIMA ERUPTION IN JAPAN SEA

Kenji SATAKE, Stefano TINTI

1700-103 JSS07a/09P/D-002

Poster

HOLOCENE TSUNAMI DEPOSITS FROM LARGE EARTHQUAKES ALONG THE KURIL SUBDUCTION ZONE, EASTERN HOKKAIDO

Futoshi NANAYAMA, Kenji SATAKE, Ryuta FURUKAWA, Koichi SHIMOKAWA, Kiyoyuki SHIGENO

1700-104 JSS07a/09P/D-003

Poster

TSUNAMI FLUID FORCE ON VEGETATION

Kentaro IMAI, Hideo MATSUTOMI

1700-105 JSS07a/09P/D-004

Poster

TIMING AND SCALE OF TSUNAMIS CAUSED BY THE 1994 RABAU ERUPTION, EAST NEW BRITAIN, PAPUA NEW GUINEA

Yuichi NISHIMURA, Mitsuhiro NAKAGAWA, Jonathan KUDUON, Joseph WUKAWA

1700-106 JSS07a/09P/D-005

Poster

CHARACTERISTICS OF HISTORICAL TSUNAMI EVENTS OF EASTERN HOKKAIDO, JAPAN, REVEALED BY SEDIMENTARY FACES OF THE TSUNAMI DEPOSITS

Yuichi NISHIMURA, Kazuomi HIRAKAWA, Yugo NAKAMURA, Naomichi MIYAJI, Masayoshi KOMATSU

1700-107 JSS07a/09P/D-006

Poster

RUN-UP CALCULATION OF HOKKAIDO SOUTHWEST EARTHQUAKE TSUNAMI WITH DISPERSION EFFECT

Masafumi YOSHINO, Toshifumi MIKAMI, Takahiro AKITA, Hiroyuki IWASE

1700-108 JSS07a/09P/D-007

Poster

EVALUATION FOR TSUNAMI SOURCE AREA BASED ON A PRECISE ANALYSIS OF CRUSTAL DEFORMATION--VERIFICATION ON TSUNAMI RUN-UP HEIGHTS BY THE 1993 HOKKAIDO-NANSEI-OKI EARTHQUAKE --

Masafumi MATSUYAMA, Yasuhira AOYAGI, Hiroyoshi TANAKA, Shintaro ABE

1700-109 JSS07a/09P/D-008

Poster

CAUSE OF THE TSUNAMI OF THE AITAPE EARTHQUAKE OF 17TH JULY, 1998, PAPUA NEW GUINEA

Yoshinobu TSUJI

1700-110 JSS07a/09P/D-009

Poster

BAY ON TROUBLED WATERS:MODELLING TSUNAMI HEIGHTS ALONG THE COASTS OF SOUTHWESTERN LUZON AND MANILA BAY FROM EARTHQUAKES ALONG THE MANILA TRENCH AND MANILA BAY AREA

Ishmael C. NARAG, Erlinton B. OLAVERE, Bartolome C. BAUTISTA, Ma. Leonila P. BAUTISTA, Yuichiro TANIOKA

1700-111 JSS07a/09P/D-010

Poster

STUDY OF DIATOM FLORA FOR PALEO-TSUNAMI EVENTS IDENTIFICATION

Nadezhda G. RAZJIGAEVA, Tatiana A. GREBENNIKOVA, Larissa A. GANZEI, Alexander Ya. ILYEV

1700-112 JSS07a/09P/D-011

Poster

REGIONAL AND LOCAL TRIGGERING OF THE AUGUST 17, 1999 TSUNAMI IN THE IZMIT BAY (TURKEY)

Stefano TINTI, Anna MANUCCI, Gianluca PAGNONI, Filippo ZANIBONI, Alberto ARMIGLIATO

1700-113 JSS07a/09P/D-012

Poster

RESTORATION OF A TSUNAMI SOURCE BY INVERSION OF THE COASTAL TIDE-GAUGE RECORDS

Tatjana A. VORONINA, Viacheslav K. GUSIAKOV, Vladimir A. TCHEVERDA

1700-114 JSS07a/09P/D-013

Poster

POST-EVENT SURVEY OF THE DISASTROUS TSUNAMI OF 30 DECEMBER 2002 HITTING STROMBOLI ISLAND, ITALY

Stefano TINTI, Alberto ARMIGLIATO, Laura GRAZIANI, Alessandra MARAMAI, Anna MANUCCI, Gianluca PAGNONI, Filippo ZANIBONI

1700-115 JSS07a/09P/D-014

Poster

MODELLING OF THE HOLOCENIC MEGATSUNAMI INDUCED BY THE SECTOR COLLAPSE OF STROMBOLI IN THE TYRRHENIAN SEA, ITALY

Stefano TINTI, Kenji SATAKE, Gianluca PAGNONI, Filippo ZANIBONI

1700-116 JSS07a/09P/D-015

Poster

SEISMICITY OFFSHORE IBERIA: THE 1761 IBERIAN EARTHQUAKE AND TSUNAMI

Maria Ana BAPTISTA

1700-117 JSS07a/09P/D-016

Poster

HUGE TSUNAMIS BASED ON TSUNAMI DEPOSITS ALONG THE PACIFIC COAST OF EAST HOKKAIDO, NORTHERN JAPAN

Kazuomi HIRAKAWA, Yugo NAKAMURA, Yuichi NISHIMURA

1700-118 JSS07a/09P/D-017

Poster

AN FEM MODELING FOR THE TSUNAMI SOURCE AREA OF THE 1993 HOKKAIDO NANSEI-OKI EARTHQUAKE, JAPAN

Yasuhira AOYAGI, Shintaro ABE, Masafumi MATSUYAMA, Hiroyoshi TANAKA

1700-119 JSS07a/09P/D-018

Poster

FIELD SURVEY AND PRELIMINARY MODELING OF THE SEPTEMBER 9, 2002 WEWAK, PNG EARTHQUAKE AND TSUNAMI

Jose C. BORRERO, Jose BORRERO, James BU, Christine SAIANG, Burak USLU, John FRECKMAN, Brandon GOMER, Hugh DAVIES, Emile OKAL, Costas SYNOLAKIS

GAI.10 Wednesday, July 9 PM

ELECTROMAGNETIC INVERSION MODELING

Location: Site A, Room 11

Presiding Chair: M. Dobroka

1400 GAI.10/09P/A11-001

THREE-DIMENSIONAL ELECTROMAGNETIC MODELING BASED ON THE CONTRACTION INTEGRAL EQUATION METHOD

Michael S. ZHDANOV, Gabor HURSAN

1415 GAI.10/09P/A11-002

THREE-DIMENSIONAL INVERSION OF VERY LOW FREQUENCY (VLF) ELECTROMAGNETIC DATA

Shashi Prakash SHARMA

1430 GAI.10/09P/A11-003

GLOBAL-SCALE ELECTROMAGNETIC INDUCTION: 3-D TEST COMPUTATIONS AND THE RESPONSE OF A REALISTIC STRUCTURE

Ryokei YOSHIMURA, Naoto OSHIMAN

1445 GAI.10/09P/A11-004

PROPERTIES OF THE TIME DOMAIN SURFACE GEOELECTRIC MODELED USING 3D EARTH MODEL AND REALISTIC IONOSPHERIC SOURCE CURRENT

Antti A. PULKKINEN, Martin ENGELS, Ari VILJANEN, BEAR WG

1500 GAI.10/09P/A11-005

INVERSION OF TDEM DATA IN POLARIZED AND SUPERPARAMAGNETIC MEDIUM

Pavel O. BARSUKOV, Edouard B. FAINBERG, Eugeny O. Khabensky

1515 GAI.10/09P/A11-006

DERIVING MANTLE CONDUCTIVITY-DEPTH PROFILES FROM REGIONAL HARMONIC ANALYSIS OF GEOMAGNETIC VARIATIONS AT AURORAL OVALS

J. Miquel TORTA, Angelo DE SANTIS, Lluís R. GAYA-PIQUE, Santiago MARSAL

1530 GAI.10/09P/A11-007

TIME-DOMAIN INVERSION FOR THE RADIAL ELECTRICAL CONDUCTIVITY DISTRIBUTION OF THE EARTH'S MANTLE

Yozo HAMANO

GAI.10-Posters Wednesday, July 9 PM

ELECTROMAGNETIC INVERSION MODELING

Location: Site D

Presiding Chair: A. Saraev

1615-120 GAI.10/09P/D-001

Poster

ELECTRICAL AND GPR TOMOGRAPHIES FOR ARCHAEOLOGICAL INVESTIGATIONS AT MIT-RAHEINA VILLAGE, GIZA, EGYPT

Abdel-Rady Ghareeb HASSANEEN, Salah Sherif OSMAN, Mohamed Abde -Aal ABD-ALLAH, Fathy Ahmed SHAABAN

1615-121 GAI.10/09P/D-002

Poster

GEOELECTRICAL STUDY TO DELINEATE THE EFFECT OF GROUNDWATER INCREMENT IN ABU-SIR ARCHAEOLOGICAL AREA, EL- GIZA, EGYPT

Abdel-Rady Ghareeb HASSANEEN, El-Said Ahmed EL-SAYED, Mamdouh Mohamed SOLIMAN

1615-122 GAI.10/09P/D-003

Poster

MAPPING OF BURIED ARCHAEOLOGICAL RELICS USING GPR SURVEY AT THE ISIS TEMPLE AREA, BAHBEIT EL-HEGARA, EGYPT

Fathy Ahmed SHAABAN, Fouad Fawzy SHAABAN, Abbas Mohamed ABBAS

1615-123 GAI.10/09P/D-004

Poster

GEOELECTRIC STRUCTURE ACROSS NARMADA-SON LINEAMENT ZONE, CENTRAL INDIA, FROM 2-D MODELING RESULTS

Bantu Prasanta Kumar PATRO, Harinarayana T. , Sastry R.S. , Madhusudan Rao , Manoj C., Naganjaneyulu K. , Sarma S.V.S.

1615-124 GAI.10/09P/D-005

Poster

3-D MODELLING AND ANALYSIS OF THE DST C-RESPONSES IN THE NORTH PACIFIC OCEAN REGION, REVISITED

Alexei KUVSHINOV, Hisashi UTADA, Dmitry AVDEEV, Takao KOYAMA

1615-125 GAI.10/09P/D-006

Poster

ANTENNA POLARIZATION EFFECT IN TDEM

Pavel O. BARSUKOV, Edouard B. FAINBERG, Eugeny O. Khabensky

1615-126 GAI.10/09P/D-007

Poster

ON THE UNIQUENESS OF THE INVERSE PROBLEM SOLUTION FOR METHOD SQ-VARIATIONS

Peter S. MARTYSHKO, Peter S. MARTYSHKO, Valentin A. PYANKOV

1615-127 GAI.10/09P/D-008

Poster

CHARACTERIZATION OF GEOTHERMAL RESERVOIR AROUND A HOT SPRING THROUGH INTEGRATED GEOPHYSICAL AND GEOCHEMICAL STUDIES

Shashi Prakash SHARMA

1615-128 GAI.10/09P/D-009

Poster

ANALYSIS OF THE POSSIBILITIES OF LOCAL MAGNETOVARIAIONAL SOUNDING

Pavel Yu PUSHKAREV, Mark N. BERDICHEVSKY, Vladimir I. DMITRIEV, Nina S. GOLUBTSOVA

1615-129 GAI.10/09P/D-010

Poster

TWO-DIMENSIONAL MAGNETOTELLURIC INVERSION USING MONTE CARLO MARKOV CHAIN ALGORITHM

Nugroho Dwi HANANTO, Djedi Setyo WIDARTO, Hendra GRANDIS

1615-130 GAI.10/09P/D-011

Poster

A FAST APPROXIMATE INVERSION PROCEDURE TO INTERPRET MAGNETOTELLURIC DATA

Erno PRÁCSER, Michael DOBROKA, Márta KIS

1615-131 GAI.10/09P/D-012

Poster

SOME PROBLEMS APPLYING THE 3D MODELING SCHEME TO PRACTICAL DATA

Elena Yu. FOMENKO, Tohru MOGI

1615-132 GAI.10/09P/D-013

Poster

IDENTIFICATION AND LOCALIZATION OF ARCHEOLOGICAL OBJECTS IN MAGNETIC SURVEY BY COMPLEX WAVELET ANALYSIS.

Ginette SARACCO, Pierre-Etienne MATHE, Frederique MOREAU, Daniel HERMITTE

1615-133 GAI.10/09P/D-014

Poster

COMPARISON OF 2-D AND 3-D MODELLING OF THE MT RESPONSE ALONG TRAVERSES IN COMPLEX TECTONIC REGIONS OF INDIA

Nandini Nityananda NAGARAJAN, Praveena M., S.G. GOKARN

1615-134 GAI.10/09P/D-015

Poster

3-D ELECTRICAL AND ELECTROMAGNETIC MODELING OF A KIMBERLITE PIPE

Saurabh Kumar VERMA, Kushal Pal SINGH, K.P. PANTULU

1615-135 GAI.10/09P/D-016

Poster

DEEP CRUSTAL IMPLICATIONS OF ELECTRICAL CONDUCTIVITY ON THE NORTHERN EDGE OF THE CONGO CRATON FROM AUDIO MAGNETOTELLURIC SOUNDINGS IN THE ABONG-MBANG/AKONOLING REGION, CAMEROON(CENTRAL AFRICA).

Théophile Mbarga NDOUGSA, MBOM ABANE. S.

1615-136 GAI.10/09P/D-017

Poster

DETERMINATION OF A TECTONIC NODE FROM THE INTERFERENCE OF STRUCTURAL DIRECTIONS ON THE BORDER OF THE CONGO CRATON AYOS REGION CAMEROON, BY USING THE AUDIO MAGNETOTELLURIC METHOD

Mbom Abane S., Ndougsa Mbarga T., Manguelle-Dicoum E.

GAII.06 Wednesday, July 9 PM

IONOSPHERIC IRREGULARITIES, FIELDS AND WAVES

Location: Site A, Room 10

Presiding Chair: M. Yamamoto

SEEK II

1400 GAII.06/09P/A10-001

MID-LATITUDE E-REGION IRREGULARITIES REVEALED BY THE SEEK-2 (SPORADIC-E EXPERIMENT OVER KYUSHU 2) EXPERIMENT

Mamoru YAMAMOTO, Shoichiro FUKAO

1420 GAII.06/09P/A10-002

SEEK-2: OBSERVATIONS OF NEUTRAL WINDS AND TURBULENCE IN A REGION SPORADIC E AND QP STRUCTURE

Miguel Folkmar LARSEN, M. YAMAMOTO, R. TSUNODA, S. FUKAO

1440 GAII.06/09P/A10-003

SEEK2 RADIO BEACON IMAGING OF SPORADIC-E LAYERS

Paul A. BERNHARDT, C.A. SELCHER, C.S. SIEFRING, M. YAMAMOTO, S. FUKAO

1500 GAII.06/09P/A10-004

RADAR OBSERVATIONS OF FIELD-ALIGNED PLASMA IRREGULARITIES IN THE SPORADIC E EXPERIMENT OVER KYUSHU 2 (SEEK-2)

Susumu SAITO, Masato MARUMOTO, Mamoru YAMAMOTO, Shoichiro FUKAO, Roland T. TSUNODA

WEEK B
WED
PM

- 1515 GAll.06/09P/A10-005**
ELECTRON DENSITY IRREGULARITIES IN THE NIGHT-TIME SPORADIC-E LAYERS OBSERVED BY A SOUNDING ROCKET S-310-31 DURING THE SEEK-2 CAMPAIGN PERIOD
Hirotaka MORI, Koh-ichiro OYAMA
- 1530 GAll.06/09P/A10-006**
OBSERVATION OF ELECTRON NUMBER DENSITY PROFILES AND VLF PLASMA WAVES BY USING S310 SOUNDING ROCKETS DURING THE SEEK-2 CAMPAIGN
Makoto WAKABAYASHI, Takayuki ONO
- 1545 GAll.06/09P/A10-007**
STUDY OF GENERATION OF POLARIZATION ELECTRIC FIELDS ASSOCIATED WITH A SPORADIC-E LAYER
Tatsuhiko YOKOYAMA, Mamoru YAMAMOTO, Shoichiro FUKAO, Robert F. PFAFF
- 1600 BREAK**
- 1620 GAll.06/09P/A10-008**
SOME ASPECTS OF SUMMERTIME LOW-ALTITUDE QUASI-PERIODIC ECHOES OBSERVED WITH THE MU RADAR
Tadahiko OGAWA, Yuichi OTSUKA, Kazuo SHIOKAWA, Fumiki ONOMA, Mamoru YAMAMOTO
- 1640 GAll.06/09P/A10-009**
THE SPORADIC E LAYER INSTABILITY IN THE NIGHTTIME MIDLATITUDE IONOSPHERE
Russell B. COSGROVE, Roland T. TSUNODA
- 1655 GAll.06/09P/A10-010**
KILOMETRIC PLASMA WAVES IN MIDLATITUDE SPORADIC E LAYERS
David L. HYSELL
- 1710 GAll.06/09P/A10-011**
THE VARIATIONS OF ES LAYER IN THE WESTERN PACIFIC REGION DURING THE SEEK-2 CAMPAIGN
Chien-Chih LEE, J.Y. LIU, C.J. PAN, C.H. LIU, W.H. TSAI, T. MARUYAMA, L. LIU
- 1725 GAll.06/09P/A10-012**
AN EXPECTED RESPONSE OF IONOSPHERIC IRREGULARITIES GENERATED BY NEUTRAL TURBULENCE TO CHANGES IN THE TURBULENT ENERGY DISSIPATION RATE
Yuriy KYZYUROV
- 1740 GAll.06/09P/A10-013**
RAYLEIGH AND TSUNAMI IONOSPHERIC COMPANION WAVES
Philippe LOGNONNE, Philippe LOGNONNE, Juliette ARTRU, Vesna DUCIC, Hiroo KANAMORI, Makoto MURAKAMI

GAll.07 Wednesday, July 9 PM

WHAT IS THE ROLE OF NON-LINEAR PROCESSES AND COMPLEX SYSTEM DYNAMICS IN DETERMINING MAGNETOSPHERIC BEHAVIOR?
Location: Site A, Room 14

Presiding Chair: Y. Omura

- 1400 GAll.07/09P/A14-001**
DOUBLE LAYERS AND THEIR ROLES IN MAGNETOSPHERIC PLASMA TURBULENCE
Nagendra SINGH
- 1430 GAll.07/09P/A14-002**
NONLINEAR ELECTRON ACOUSTIC WAVES WITH NON-THERMAL DISTRIBUTION OF ELECTRONS
Satyavir SINGH, Gurbax S. LAKHINA
- 1450 GAll.07/09P/A14-003**
ELECTRON HOLES AND DOUBLE LAYER-LIKE STRUCTURES OBSERVED ALONG THE CLUSTER ORBIT: CHARACTERISTICS AND INFLUENCE OF THE MAGNETIC FIELD ON THEIR AMPLITUDES
Jolene S. PICKETT, Li-Jen CHEN, Scott W. KAHLER
- 1510 GAll.07/09P/A14-004**
PARTICLE SIMULATIONS OF ELECTROMAGNETIC EMISSIONS FROM ELECTROSTATIC SOLITARY WAVES
Takayuki UMEDA, Yoshiharu OMURA, Hiroshi MATSUMOTO
- 1530 GAll.07/09P/A14-005**
GENERATION OF ELECTRON HOLES BY MAGNETIC TURBULENCE ON AURORAL FIELD LINES
Gurbax S. LAKHINA, Bruce T. TSURUTANI, Jolene S. PICKETT

1550 BREAK

- 1610 GAll.07/09P/A14-006**
CLUSTER OBSERVATIONS OF DYNAMIC PHENOMENA NEAR THE BOW SHOCK AND IN THE MAGNETOSHEATH
Andre BALOGH, Timothy HORBURY, Elizabeth LUCEK
- 1640 GAll.07/09P/A14-007**
ELECTRON HEATING PROCESSES AT QUASI-PERPENDICULAR SHOCKS
Tooru SUGIYAMA, Masaki FUJIMOTO, Yoshiharu OMURA, Hiroshi MATSUMOTO
- 1700 GAll.07/09P/A14-008**
ORIGIN OF PHASE COHERENCE AMONG MHD WAVES IN THE SOLAR WIND
Tohru HADA, Daiki KOGA, Eiko YAMAMOTO
- 1720 GAll.07/09P/A14-009**
CAUSAL THERMODYNAMICS OF MAGNETOFLUIDS
Tadas K. NAKAMURA
- 1740 GAll.07/09P/A14-010**
FULLY NONLINEAR ANALYSIS OF AURORAL SOLITARY WAVES IN THE PRESENCE OF MAGNETIC FIELD
Suktisama GHOSH, Gurbax S. LAKHINA

GAll.11 Wednesday, July 9 PM

HOW DO SPACECRAFT INTERACT WITH THEIR SPACE ENVIRONMENT?
Location: Site A, Room 15

Presiding Chairs: A. Hilgers, P. Benhardt

- 1400 GAll.11/09P/A15-001 Invited**
ELECTRODYNAMIC TETHERS FOR IN-ORBIT PROPULSION: STATUS AND TECHNOLOGICAL ISSUES
Brian E. GILCHRIST
- 1425 GAll.11/09P/A15-002**
GROUND EXPERIMENTS OF ELECTRODYNAMIC TETHER USING HOLLOW CATHODE PLASMA CONTACTORS
Masaya KOZAKAI, Naoyuki HIROSE, Tetsuya AOYAMA, Haruki TAKEGAHARA
- 1440 GAll.11/09P/A15-003**
DETERMINATION OF ESD GROUND TEST CONDITIONS FOR HIGH POWER GEO SATELLITE SOLAR ARRAY
Mengu CHO, Toshiaki MATSUMOTO, Emanuel AMORIM, Kazuhiro TOYODA
- 1455 GAll.11/09P/A15-004**
EFFECT OF SPACE PLASMA ON HIGH VOLTAGE SOLAR ARRAY
Koji TANAKA, Minoru IWASA, Susumu SASAKI, Haruhisa FUJII, Masahiro MORI
- 1510 GAll.11/09P/A15-005**
STUDY OF SPACECRAFT ARCING IN AMBIENT PLASMA ENVIRONMENTS
Takahisa MASUYAMA, Masato NAGATA, Tatuo ONISHI, Hirokazu TAHARA, Takao YOSHIKAWA
- 1525 GAll.11/09P/A15-006**
COMPUTER EXPERIMENTS OF TRANSIENT CHARGING PROCESS OF A PLASMA EMITTING BODY
Hideyuki USUI, Ikko FUNAKI, Hayato TASHIMA, Hitoshi KUNINAKA, Masaki OKADA, Yoshinori NAKAYAMA
- 1540 GAll.11/09P/A15-007 Invited**
DEVELOPMENTS IN MINI-MAGNETOSPHERIC PLASMA PROPULSION
Robert WINGLEE, Tim ZIEMBA, Peter EURIPIDES, Louis GIERSCHE, John SLOUGH

1605 BREAK

- 1620 GAll.11/09P/A15-008 Invited**
THE CLUSTER DOUBLE PROBE ELECTRIC FIELD EXPERIMENT (EFW)
Arne PEDERSEN, Mats ANDRE, Andre BALOGH, Anders ERIKSSON, Per-Arne LINDQVIST, Forrest MOZER, Goetz PASCHMANN, Henri REME, Jack QUINN
- 1645 GAll.11/09P/A15-009**
RHEOMETRY EXPERIMENT OF THE WIRE ANTENNA ABOARD SCIENTIFIC SPACECRAFTS
Tomohiko IMACHI, Satoshi YAGITANI, Isamu NAGANO, Ryoichi HIGASHI, Satoshi ESAKI, Minoru TSUTSUI, Hiroshi MATSUMOTO
- 1700 GAll.11/09P/A15-010**
STUDY OF SPACECRAFT-PLASMA INTERACTION VIA 3D UNSTRUCTURED-GRID EM PARTICLE SIMULATION
Masaki OKADA, Hiroshi MATSUMOTO
- 1715 GAll.11/09P/A15-011**
COMPUTER EXPERIMENTS ON ANTENNA CHARACTERISTICS IN SPACE PLASMA
Nobuyuki NAKAMURA, Hideyuki USUI, Hirotugu KOJIMA, Hajime KAISHIMA, Hiroshi MATSUMOTO, Yoshiharu OMURA

1730 GAIII.11/09P/A15-012
PIC MODELLING OF THE PHOTO-ELECTRON CLOUD AROUND A SPACECRAFT
Alain M.F. HILGERS, Benoit THIEBAULT, Julien FOREST, Olivier CHANRION, Philippe ESCOUBET, Michael FEHRINGER, Harri LAAKSO

1745 GAIII.11/09P/A15-013 Invited
ELECTRICAL CHARGING OF THE ROSETTA ORBITER, (1) NUMERICAL SIMULATION
Jean-François ROUSSEL, Jean-Jacques BERTHELIER

GAIV.03-Posters Wednesday, July 9 PM

MAGNETISM AND INTERACTION WITH THE SOLAR WIND
Location: Site D

1400-144 GAIV.03/09P/D-001 Poster
DISTRIBUTION OF CRUSTAL MAGNETIC FIELDSON MARS: SHOCK EFFECTS OF BASIN-FORMINGIMPACTS
Lon L. HOOD, Nicola C. RICHMOND, Elisabetta PIERAZZO, Pierre ROCHETTE

GAIV.04 Wednesday, July 9 PM

REPORTER REVIEWS
Location: Site A, Room 16

Convener: S.J. Schwartz
Presiding Chair: S.J. Schwartz

1400 GAIV.04/09P/A16-001
THE ORIGIN OF THE SOLAR MAGNETIC FIELD
Arnab R. CHOUDHURI

1435 GAIV.04/09P/A16-002 Invited
RECENT ADVANCES IN THE STUDY OF SOLAR ACTIVITY: REPORTER REVIEW
Barbara J. THOMPSON

1510 GAIV.04/09P/A16-003
ORIGIN OF THE FAST SOLAR WIND: OUR CURRENT UNDERSTANDING AND HOW WE GOT HERE
Joseph V. HOLLWEG

1545 BREAK

1615 GAIV.04/09P/A16-004 Invited
THREE-DIMENSIONAL STRUCTURE OF THE OUTER HELIOSPHERE
Nikolai V. POGORELOV

1650 GAIV.04/09P/A16-005 Invited
SOLAR WIND INTERACTION WITH WEAKLY MAGNETIZED PLANETS AND COMETS
Christian MAZELLE

1725 GAIV.04/09P/A16-006 Invited
COLLISIONLESS SHOCKS AND MAGNETOSHEATH: RECENT RESULTS FROM MULTIPOINT MEASUREMENTS IN SPACE
Vladimir KRASNOSELSKIKH

GAV.05-Posters Wednesday, July 9 PM

MODELING THE EARTH'S MAGNETIC FIELD ON GLOBAL AND REGIONAL SCALES (SEDI)
Location: Site D

1400-145 GAV.05/09P/D-001 Poster
A NEW THEORY ON THE EARTH'S MAGNETIC FIELD
Eugene D. RICHARD

1400-146 GAV.05/09P/D-002 Poster
NORTH MAGNETIC POLE MOTION: JERK OR REVERSAL?
Vladimir V. KUZNETSOV

1400-147 GAV.05/09P/D-003 Poster
TRACING BACK THE MAGNETIC JERK OF 1991 TO THE CORE-MANTLE BOUNDARYBY NUMERICAL EXPERIMENTS
Ludwig BALLANI, Dietrich STROMEYER, Ingo WARDINSKI, Hans GREINER-MAI

1400-148 GAV.05/09P/D-004 Poster
MODELLING THE EARTH'S MAGNETIC FIELD USING WAVELETS FRAMES
Aude CHAMBODUT, Mioara MANDEA, Matthias HOLSCHNEIDER

1400-149 GAV.05/09P/D-005 Poster
ANALYSIS OF THE REGIONAL MAGNETIC FIELD AND ITS SECULAR VARIATIONS OVER THE ROMANIAN TERRITORY
Ligia-Narciza E. ATANASIU , Mioara MANDEA

1400-150 GAV.05/09P/D-006 Poster
REGIONAL MODEL OF THE GEOMAGNETIC ANNUAL CHANGES IN AND AROUND JAPAN ISLAND BASED ON NOC AND SCH ANALYSIS
Mitsuru UTSUGI, Hiroki SHIRAI, Hideo HAMASAKI, Teruaki NISHIKI, Satoshi FUJIWARA

1400-151 GAV.05/09P/D-007 Poster
RAPID CHANGE OF THE GEOMAGNETIC SECULAR VARIATION FIELD AS REVEALED BY THE FIRST ORDER MAGNETIC SURVEY OF JAPAN
Hideo SAKAI, Naokatsu SUZUKI, Toru YAMAGUCHI, Hiroo MIZUNO

1400-152 GAV.05/09P/D-008 Poster
NATIONAL RESEARCH INSTITUTE OF ASTRONOMY AND GEOPHYSICS, HELWAN EGYPT
Deebes Hanafy ALY, Ahmed F. M., EL. saed M., Arafa T.

1400-153 GAV.05/09P/D-009 Poster
LONG-WAVELENGTH OF GRAVITY AND MAGNETIC FIELDS WHILE THE STUDY OF THE URALS DEEP STRUCTURE
Vsevolod SHAPIRO, Faina NIKONOVA

GAV.06-Posters Wednesday, July 9 PM

MODERN MAGNETIC SURVEYS FOR REGIONAL TECTONICS, GEOHAZARDS AND ENVIRONMENTAL INVESTIGATIONS
Location: Site D

Convener: S. Okuma
Co-Conveners: R. Saltus, M. Chiappini

1400-154 GAV.06/09P/D-001 Poster
GEOPHYSICAL SIGNATURE ON THE SUBSURFACE STRUCTURE OF THE AEOLIAN ISLANDS, ITALY
Shigeo OKUMA, Tadashi NAKATSUKA, Mitsuhiro SUGIHARA, Masao KOMAZAWA, Shun NAKANO, Ryuta FURUKAWA, John Joseph ELENJIPARAMPIL, Robert SUPPER, Massimo CHIAPPINI

1400-155 GAV.06/09P/D-002 Poster
CONSISTENT GEOMAGNETIC IMAGES OVER THE SW MARGIN OF THE EAST EUROPEAN PLATE
Lucian BESUTIU, Mikhail I. ORLYUK, Inna K. PASHKEVICH, Georgeta BESUTIU, Svetlana V.ELISEEVA, Vasile NEAGA, Andriy A. ROMENETS

1400-156 GAV.06/09P/D-003 Poster
PRELIMINARY INTERPRETATION OF THE MAGNETIC ANOMALIES OF THE EASTERN VIETNAM SEA AND RECENT REGIONS
Hung Viet LUU, Minh Huy LE

1400-157 GAV.06/09P/D-004 Poster
TIME CHANGES OF GEOMAGNETIC TRANSFER FUNCTIONS AT LUNPING, TAIWAN RELATED TO EARTHQUAKE OCCURRENCES
Kuang-Jung CHEN

1400-158 GAV.06/09P/D-005 Poster
COMPREHENSIVE MAPPING THROUGH THE DATABASE OF AEROMAGNETIC ANOMALIES OVER JAPAN
Tadashi NAKATSUKA, Shigeo OKUMA, Rie MORIJIRI, Masahiko MAKINO

1400-159 GAV.06/09P/D-006 Poster
DIGITAL COMPILATION OF MAGNETIC ANOMALY MAP OF THE NORTH PACIFIC OCEAN
Takemi ISHIHARA

1400-160 GAV.06/09P/D-007 Poster
COMPARATIVE AEROMAGNETIC STUDY OF SEISMIC HAZARDS IN TWO PACIFIC RIM FOREARC BASIN SETTINGS: PUGET SOUND, WASHINGTON, AND COOK INLET, ALASKA
Richard W. SALTUS, Richard J. BLAKELY, Peter J. HAEUSSLER

1400-161 GAV.06/09P/D-008 Poster
IDENTIFICATION OF POSSIBLE DEEP PENETRATIVE FRACTURES ON THE SOUTHWESTERN COLORADO PLATEAU, U.S.A.
Mark E. GETTINGS

1400-162 GAV.06/09P/D-009 Poster
UTILITY OF SATELLITE MAGNETIC OBSERVATIONS FOR ESTIMATING NEAR-SURFACE MAGNETIC ANOMALIES
Hyung Rae KIM, Ralph R.B. VON FRESE, Patrick T. TAYLOR, Jeong Woo KIM

1400-163 GAV.06/09P/D-010 Poster
DISPLACEMENT OF THE GEOMAGNETIC EQUATOR STOPS AT THE DEFLEXION OF MACHUPICCHU AS PART OF THE TECTONIC PROCESS IN SOUTH AMERICA
Teodosio Chavez CAMPOS, Casaverde RIO, Israel Chavez SUMARRIVA

1400-164 GAV.06/09P/D-011 Poster
AEROMAGNETIC ANOMALY EXPLORATION BETWEEN YULE BAY AND MERTZ GLACIER (EAST ANTARCTICA)
Bozzo EMANUELE, Detlef DAMASKE, Fausto FERRACCIOLI

**WEEK
B
WED
PM**

- 1400-165 GAV.06/09P/D-012 Poster**
GANOVEX VIII: AN AEROMAGNETIC SURVEY ALONG THE ANTARCTIC COAST BETWEEN COMMONWEALTH BAY AND CAPE ADARE
Detlef J. DAMASKE, Heinz-Dieter MOELLER, Emanuele BOZZO, Fausto FERRACCIOLI, Massimo CHIAPPINI
- 1400-166 GAV.06/09P/D-013 Poster**
PEOPLE AS BIOSENSORS FOR MAGNETIC STORMS AND SOLAR WEATHER DETECTION
Olga Valerievna KHABAROVA, Mary Valerievna RAGULSKAYA, Eugeniy Antonovich RUDENCHIK
- 1400-167 GAV.06/09P/D-014 Poster**
AEROMAGNETIC SURVEY OVER UNZEN VOLCANO
Ayako OKUBO, Yoshikazu TANAKA, Naoto KITADA, Mitsuru UTSUGI, Hiroshi SHIMIZU, Takeshi MATSUSHIMA



HS01 Wednesday, July 9 PM

EROSION PREDICTION OF UNGAUGED BASINS (PUBS): INTEGRATING METHODS AND TECHNIQUES (ICCE, ICRS AND ALL IAHS COMMISSIONS)
Location: Site C, Room 29

Presiding Chair: B. Hasholt

- 1400 HS01/09P/C29-001**
APPLICATION OF A PROCESS-BASED MODEL AS A PREDICTIVE TOOL FOR EROSION LOSS IN UNGAUGED BASINS
Celso A.G. SANTOS, Vajapeyam S. SRINIVASAN, Carlos O. GALVAO
- 1420 HS01/09P/C29-002**
IDENTIFICATION OF SOURCES OF SEDIMENT TO LAKE SAMSONVALE (NORTH PINE DAM) SOUTH-EAST QUEENSLAND, AUSTRALIA
Grant Brian DOUGLAS, Mark PALMER
- 1440 HS01/09P/C29-003**
CHRONOLOGY OF ALLUVIAL SEDIMENT USING DATE OF PRODUCTION OF BURIED REFUSE: CASE STUDY IN AN UNGAUGED RIVER IN CENTRAL JAPAN
Yoshimasa KURASHIGE, Hajime KIBAYASHI, Goro NAKAJIMA
- 1500 HS01/09P/C29-004**
SEDIMENT YIELD ESTIMATION AND CHECK DAMS IN A SEMIARID AREA (SOUTH EDGE OF SIERRA DE GADOR, SOUTHERN SPAIN)
Wenceslao Martin- ROSALES, A. Pulido BOSCH, J. GISBERT, A. VALLEJOS
- 1520 HS01/09P/C29-005**
RECONSTRUCTING UPLAND SEDIMENT BUDGETS IN UNGAUGED CATCHMENTS FROM RESERVOIR SEDIMENTATION AND RAINFALL RECORDS CALIBRATED USING SHORT-TERM STREAMFLOW MONITORING
David Laurence HIGGITT, Victoria Jane HOLLIDAY, Jeff WARBURTON, Sue WHITE
- 1540 HS01/09P/C29-006**
ESTIMATION OF EROSION AND SEDIMENT OUTFLOW IN OLD DAYS
Takahisa MIZUYAMA, Akitsu KIMOTO, Yuji YASUDA, Masaru TOUHEI, Masaharu FUJITA
- 1600 HS01/09P/C29-007**
PREDICTING EROSION RATES IN SELECTIVELY LOGGED TROPICAL RAIN FORESTS
Ian DOUGLAS

1620	BREAK
1640	SUMMARY & DISCUSSION
1700	CLOSING REMARKS

HS01-Posters Wednesday, July 9 PM

EROSION PREDICTION OF UNGAUGED BASINS (PUBS): INTEGRATING METHODS AND TECHNIQUES (ICCE, ICRS AND ALL IAHS COMMISSIONS)
Location: Site D

- 1400-168 HS01/09P/D-001 Poster**
ESTIMATION OF HYDROGEOMORPHOLOGICAL PARAMETERS OF A WATERSHED USING GIS
Umamahesh Venkata NANDURI, Ramakrishna K.
- 1400-169 HS01/09P/D-002 Poster**
SUSCEPTIBILITY OF ROCKS AND FORMATIONS TO EROSION AND SEDIMENT YIELD, LATIAN DRAINAGE BASIN, IRAN
Sadat FEIZNIA, Maryam ZARE-KHOSH EGHBAL

- 1400-170 HS01/09P/D-003 Poster**
THE MECHANISM OF WATER AND SEDIMENT DISCHARGES FROM GULKANA GLACIER, ALASKA: APPLICATION OF FILTER-SEPARATION AR MODEL
Kazuhisa A. CHIKITA, Kenta HIRAYAMA, Rod S. MARCH, Dennis TRABANT, Daisaku KIDO
- 1400-171 HS01/09P/D-004 Poster**
THE RELATIONS BETWEEN SEDIMENT DISCHARGE AND FOREST COVERIN A WEATHERED GRANITE MOUNTAIN AREA
Kazuhiro YABE
- 1400-172 HS01/09P/D-005 Poster**
VARIATION OF SEDIMENT YIELD RATE AFTER FOREST FIRE IN A STEEP HEADWATER CATCHMENT
Tomohiro NARUOKA, Shin'ichi ONODERA
- 1400-173 HS01/09P/D-006 Poster**
AN EXPERIMENT ON THE INFILTRATION RATE OF TEPHRA DEPOSIT FROM MT.USU, SOUTHWESTERN HOKKAIDO, IN 2000
Yuki ICHIOKA, Yuichi ONDA
- 1400-174 HS01/09P/D-007 Poster**
ESTIMATION OF SEDIMENT LOAD VARIATION CONTROLLED BY RAINFALL AFTER FOREST FIRE DISTURBANCE IN SMALL MOUNTAINOUS CATCHMENTS, WESTERN JAPAN
Naoyuki NISHIMUNE, Shin-ichi ONODERA, Tomohiro NARUOKA, Tsutomu TAKEI, Mitsuyo SAITO
- 1400-175 HS01/09P/D-008 Poster**
SEDIMENTATION IN THE RIVER GANGA: STATE-OF-THE-ART
Ajai SRIVASTAVA, Ajit K. SRIVASTAVA
- 1400-176 HS01/09P/D-009 Poster**
PRELIMINARY STUDY ON THE PREDICTION OF THE DEBRIS-FLOW PULSATION
Hiroshi SUWA
- 1400-177 HS01/09P/D-010 Poster**
LANDSLIDE DETECTION USING SATELLITE REMOTE SENSING IMAGERY
Kwong Fai Andrew LO, Hui-Chung YEH, Ju-Chen HOU
- 1400-178 HS01/09P/D-011 Poster**
USE OF ADVANCED REMOTE SENSING TECHNIQUES FOR RISK EVALUATION OF DEBRIS FLOW HAZARD AT TORRENTS AFTER VOLCANIC DISTURBANCES
Takao YAMAKOSHI, Masaaki NAKANO, Masaaki WATARI
- 1400-179 HS01/09P/D-012 Poster**
COMPARING TWO INTERPOLATORS DETERMINING SPATIAL WATER BALANCES FOR UNGAUGED LOCATIONS ON SHIKOKU ISLAND
Huaxia YAO, Irena CREED, Michio HASHINO
- 1400-180 HS01/09P/D-013 Poster**
A TERRAIN BASED PARAMETERIZATION OF DRAINAGE BASIN RESPONSE: A CASE OF YEWA BASIN
Olusegun Adebayo ADEAGA
- 1400-181 HS01/09P/D-014 Poster**
WATER EROSION IN A SMALL GRAZED SAHELIAN CATCHMENT: IDENTIFICATION OF SEDIMENT SOURCES
Harouna KARAMBIRI, Olivier RIBOLZI, Anne COUDRAIN-RIBSTEIN
- 1400-182 HS01/09P/D-015 Poster**
METHODOLOGY AND METHODS FOR ASSESSMENT OF HYDROLOGICAL CHARACTERISTICS IN UNGAUGED BASINS
Lobanov Alexeevich LOBANOV
- 1400-183 HS01/09P/D-016 Poster**
ESTIMATING EROSION USING GIS FROM SMALL WATERSHED WITH PERENNIAL SPRING IN LOWER SHIWALIKS, PUNJAB, INDIA
Amanjot SINGH
- 1400-184 HS01/09P/D-017 Poster**
RAINFALL CHARACTERISTICS AND SOME OF THEIR MANAGEMENT OPTIONS FOR IMPROVING SOIL PRODUCTIVITY IN NORTH -WESTERN TRACT OF INDIA
Sanjay ARORA, M.S. HADDA
- 1400-185 HS01/09P/D-018 Poster**
QUANTITATIVE ESTIMATION OF ALIAKMON BASIN DEGRADATION THROUGH THE USE OF G.I.S.
Dimitrios A. EMMANOULOUDIS, Odysseas P. CHRISTOU, Evangelos I. FILIPPIDIS
- 1400-186 HS01/09P/D-019 Poster**
PEAK DISCHARGE PREDICTION FROM REGIONAL CATCHMENT CHARACTERISTICS FOR EROSION MODELLING
Andras BARDOSSY, Istvan KONTUR
- 1400-187 HS01/09P/D-020 Poster**
PHOSPHORUS BEHAVIOUR IN A GRASSLAND CATCHMENT IN NORTHERN IRELAND DURING AND BETWEEN STORM EVENTS
Wayne MENARY, Phil JORDAN, Richard DOUGLAS, Brian RIPPEY

- 1400-188

HS01/09P/D-021

Poster
- MODERN CONDITION AND PROSPECTS OF DEVELOPMENT OF TOPOGRAPHICAL AND GEODETIC WORKS AT REALIZATION OF EROSION-PREVENTIVE MEASURES
- David Dato GUBELADZE, Konstantine Kote BZIAVA
- 1400-189

HS01/09P/D-022

Poster
- CHARACTERISTICS AND TEMPORAL VARIABILITY OF LARGE WOODY DEBRIS TRAPPED IN A RESERVOIR ON THE RIVER RHONE (FRANCE) : IMPLICATIONS FOR RIVER BASIN MANAGEMENT
- Bertrand MOULIN, Herv PIÉGAY
- 1400-190

HS01/09P/D-023

Poster
- SOIL EROSION ESTIMATION WITH ARCVIEW GIS
- Guobin FU, Shullin CHEN, Donald MCCOOL
- 1400-191

HS01/09P/D-024

Poster
- SEDIMENT YEILD MODEL FOR BHAKRA NANGAL DAM USING SATELLITE REMOTE SENSING DATA
- siddharth YADAV, Ramesh P. SINGH

HS02

Wednesday, July 9 PM

WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)

Location: Site C, Room 24

Presiding Chair: M. Kumagai

- 1400

HS02/09P/C24-001
- DATA ASSIMILATION IN THE MIKE 11 FLOOD FORECASTING SYSTEM USING KALMAN FILTERING
- Dan ROSBJERG, Jesper DAMGAARD , Frands Søbjerg HANSE, Henrik MADSEN
- 1415

HS02/09P/C24-002
- A CONSENSUS REAL-TIME RIVER FLOW FORECASTING MODEL FOR THE BLUE NILE RIVER
- Asaad Y. SHAMSELDIN, Kieran M. O'CONNOR
- 1430

HS02/09P/C24-003
- PLICATION OF DYNAMIC-STOCHASTIC MODEL OF RUNOFF GENERATION FOR ESTIMATING OF EXTREME FLOOD RISK IN A BASIN WITH LAND-USE CHANGE
- Lev S. KUCHMENT, A.N. GELFAN, V.N. DEMIDOV
- 1445

HS02/09P/C24-004
- DECISION SUPPORT SYSTEM FOR FLOOD CONTROL AND ECOSYSTEM UPGRADING IN RED RIVER BASIN
- Martijn J. BOOIJ, C.B. VREUGDENHIL
- 1500

HS02/09P/C24-005
- FLOOD CONTROL - ENVIRONMENTAL AND SOCIO-ECONOMIC ISSUES: A CASE STUDY IN THE DAY RIVER REGION IN VIET NAM
- Dao Thi Anh PHAN, Kaoru TAKARA
- 1515

HS02/09P/C24-006
- RISK ASSESSMENT FOR DIVERSION OPEN CHANNEL CLOSURE OF THE THREE GORGES PROJECT IN THE YANGTZE RIVER
- Caijun WANG, Shenglian GUO, Xiangrong TIAN, Yonghua ZHU
- 1530

HS02/09P/C24-007
- GLOBAL CHANGE--RISK ASSESSMENT AND REAL TIME HYDROLOGICAL FORECASTING OF FOREST CONFLAGRATIONS FOR WATER MANAGEMENT
- S. LOBANOV, S. LOBANOV, V. KULIK

- 1545

BREAK
- 1615

HS02/09P/C24-008
- SUSTAINABLE GROUND-WATER EXPLOITATION
- Hugo A. LOAICIGA
- 1630

HS02/09P/C24-009
- SUSTAINABLE WATER RESOURCES MANAGEMENT IN DRAGONJA CATCHMENT, SLOVENIA
- Mitja BRILLY, Lidija GLOBEVNIK
- 1645

HS02/09P/C24-010
- CHANGES OF WATER RESOURCE AND COUNTERMEASURES IN CHINA
- Yongjian DING , Jianping YANG, Rensheng CHEN
- 1700

HS02/09P/C24-011
- MANAGEMENT OF INTERNATIONALLY SHARED GROUNDWATER RESOURCES IN SEMI-ARID AND ARID REGIONS ?ETHE NORTHERN AFRICAN AQUIFER SYSTEM
- Tobias U. SIEGFRIED
- 1715

HS02/09P/C24-012
- WATER MANAGEMENT BUDGET AS A BASE FOR ASSESSMENT OF WATER PRIORITIES IN A CATCHMENT
- Boris FASHCHEVSKY, Tatyana FASHCHEVSKAY

- 1730

HS02/09P/C24-013
- WORLD WATER USE: TRENDS, SCENARIOS, CONSEQUENCES
- Igor Alexeevich SHIKLOMANOV
- 1745

DISCUSSION
- HW01-Posters

Wednesday, July 9 PM
- EFFECTS OF HUMAN ACTIVITIES ON HYDROLOGICAL AND BIOGEOCHEMICAL CYCLES (ICWQ)

Location: Site D

Presiding Chairs: N.E. Peters, N. Ohte

- 1400-192

HW01/09P/D-001

Poster
- MODELLING STREAM WATER CHEMISTRY USING RIVER BASIN LANDUSE CHARACTERISTICS
- Chandra Sekhar MATLI, Surender REDDY
- 1400-193

HW01/09P/D-002

Poster
- THE BENEFIT BROUGHT BY SOIL AND WATER CONSERVATION IN CHINA
- Ge TAN, Jun XIA
- 1400-194

HW01/09P/D-003

Poster
- IMPACT OF INDUSTRIAL EFFLUENT ON WATER QUALITY IN KORBA AND ENVIRONS, CHHATISGARH, INDIA
- L. P. CHOURASIA
- 1400-195

HW01/09P/D-004

Poster
- GROUNDWATER AS AN ALTERNATIVE SOURCE OF SUPPLY FOR URBAN AREAS IN RUSSIA
- Igor Semenovitch ZEKTSER
- 1400-196

HW01/09P/D-005

Poster
- THE EFFECT OF LAND USE CHANGES ON FLOW REGIME
- Richard P. SILBERSTEIN, Tim GARGETT
- 1400-197

HW01/09P/D-006

Poster
- ENVIRONMENTAL CONDITIONS EFFECT ON THE FLUVIAL TRANSPORT CHANGES IN SOME CATCHMENTS OF THE VISTULA AND BUG INTERFLUVE
- Andriej TUCKI, Andrzej SWIECA
- 1400-198

HW01/09P/D-007

Poster
- CHARACTERISTICS, CHANGING TRENDS AND CLASSIFICATIONS OF NITRATE-NITRITE IN HOKKAIDO
- Xuan-Zhu YANG
- 1400-199

HW01/09P/D-008

Poster
- GEOCHEMISTRY OF GROUNDWATER IN MINE-AFFECTED ZONES OF SALEM, TAMIL NADU, SOUTHERN INDIA
- Palanivel Periakali GOUNDER, Manavalan Sathya NARAYANAN
- 1400-200

HW01/09P/D-009

Poster
- WATER QUALITY ENHANCEMENT THROUGH IN-LAKE MODIFICATION
- Byeong-Chan KIM, Sang-il LEE
- 1400-201

HW01/09P/D-010

Poster
- EFFECT OF URBANIZATION ON FLOOD RUNOFF
- Tokuo KISHII, Michiko HAYANO, Yasuhisa KUZUHA
- 1400-202

HW01/09P/D-011

Poster
- LOW COST TREATMENT TECHNOLOGIES FOR RECLAMATION OF CONTAMINATED SOILS AND POLLUTED GROUNDWATERS
- Zareen KHAN, Anjaneyulu Y.
- 1400-203

HW01/09P/D-012

Poster
- STUDYIND CONTAMINATION RISK TO A DRINKING WATER SOURCE THROUGH GROUNDWATER FLOW ACROSS A DYKE IN A GRANITIC AREA NEAR HIMAYATSAGAR, HYDERABAD, INDIIA
- Ratan L. DHAR, S. SANKARAN, R. RANGARAJAN, M.R.K. SARMA , V.S. SINGH
- 1400-204

HW01/09P/D-013

Poster
- MONITORING OF WATER POLLUTION OF A HYDROMORPHIC ENVIRONS
- Hari Shanker GUPTA
- 1400-205

HW01/09P/D-014

Poster
- THE REDUCTION OF RADIOACTIVE CONTAMINATION FLOW BY A WATERWAY BEYOND THE BOUNDS OF THE CHERNOBYL NPP EXCLUSION ZONE
- Dmitri I. GUDKOV, Valery V. DEREVETS, Sergey I. KIREEV, Alexander B. NAZAROV
- 1400-206

HW01/09P/D-015

Poster
- ASSESSMENT OF THE HYDROLOGIC CYCLE CONDITION IN SAPPORO
- Yoshinari HAMAHARA
- 1400-207

HW01/09P/D-016

Poster
- EFFECTIVENESS OF HYDROGEL IN WATER AND FERTILISER RETENTION
- Manta Devi NOWBUTH, Nivedita GOKOOL

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1400-208 HW01/09P/D-017 Poster
THE IMPACT OF LAND-USE PATTERN ON GROUNDWATER RECHARGE AND ALTERNATIVES FOR MITIGATION
Subrahmanyam KAMBHAMPATI

1400-209 HW01/09P/D-018 Poster
CARRYING CAPACITY BASED SUSTAINABLE DEVELOPMENT: A HOLISTIC TOOL AS APPLIED TO WATER RESOURCES FOR CENTRAL KERALA STATE
Balchand N. ALUNGAL

1400-210 HW01/09P/D-019 Poster
ENVIRONMENTAL GEOCHEMISTRY OF DAMODAR RIVER BASIN: IMPACT EVALUATION OF COAL MINING AND ALLIED INDUSTRY ON WATER AND SEDIMENT QUALITY
Abhay Kumar SINGH

1400-211 HW01/09P/D-020 Poster
OCCURENCE AND CONSEQUENT HAZARDS OF EXCESSIVELY NUTRIENT SEDIMENT IN ARTIFICIAL RESERVOIRS
Kazuo OKUNISHI

1400-212 HW01/09P/D-021 Poster
WATER SHED DEGRADATION AND WATER CONSERVATION CHALLENGES IN RIAANA RIVER CATCHMENT WITHIN THE VICTORIA DRAINAGE BASIN IN KENYA
George ONGWENYI, JOHN M. NYANGARA

1400-213 HW01/09P/D-022 Poster
CONTAMINANT ARRIVAL-TIME DISTRIBUTIONS FROM A RANDOM WALK MODEL OF HYPORHEIC TRANSPORT
William Earl BARDSLEY

1400-214 HW01/09P/D-023 Poster
STABLE ISOTOPES IN LEKE STECHLIN CATCHMENT AND ITS VICINITY
Ekkehard O. HOLZBECHER, Andrea KNAPPE, Asaf PEKDEGER, Gunnar N-ZMANN

1400-215 HW01/09P/D-024 Poster
INFLUENCE OF INTENTIONAL WATER STORAGES AND RELEASES ON HYDROLOGICAL PROCESSES OF DIFFERENT REGIONS IN THE MEKONG RIVER BASIN
Nmns Bandara NAWARATHNA, So KAZAMA, Masaki SAWAMOTO

1400-216 HW01/09P/D-025 Poster
GENERATION OF DATA BASE FOR EROSION PREDICTION OF HYDROLOGICAL BASINS
Hari Shanker GUPTA

1400-217 HW01/09P/D-026 Poster
AN ENHANCED MONITORING METHODOLOGY OF THE RIVERBED MORPHOLOGICAL CHANGES, APPLIED ON THE LOWER COURSE OF THE DANUBE RIVER
Constantin Stefan SAVA

1400-218 HW01/09P/D-027 Poster
MEASURING VERTICAL WATER FLUX AND CONVECTIVE SOLUTE TRANSPORT IN FOREST SOIL WITH CONTROLLED-SUCTION-PERIOD LYSIMETER
Ken'ichirou KOSUGI, Akihito YOSHINO, Masanori KATSUYAMA

1400-219 HW01/09P/D-028 Poster
STATISTICAL MODELLING AND ESTIMATING THE IRRIGATION AND MAN-MADE EFFECTS ON ANNUAL RUNOFF AND WATER RESOURCES
Natalie LOBODA

1400-220 HW01/09P/D-029 Poster
TRANSFORMATION OF GROUNDWATER QUALITY UNDER ACID RAIN IMPACT
Anna P. BELOUSOVA

1400-221 HW01/09P/D-030 Poster
CHANGE OF GROUNDWATER REGIMES IN RESPONSE TO URBANIZATION
Jiu J. JIAO

1400-222 HW01/09P/D-031 Poster
DENUDATION AND TRANSPORT OF TERRESTRIAL MATERIALS FROM A TROPICAL (KAOPING) RIVER WATERSHED
Jia-Jang HUNG, C.-Y. YANG

1400-223 HW01/09P/D-032 Poster
STUDY ON TRANSPORT MECHANISM OF AL IN FOREST WATERSHED OF A SUB-URBAN FOREST IN JAPAN
Min-Sik KIM, Chisato TAKENAKA , Kyoji YOSHIDA , Ho-Taek PARK

1400-224 HW01/09P/D-033 Poster
CHANGE OF SULFATE BUDGET AND FLUX BY PARTIAL DISTURBANCE WITH PINE WILT DISEASE
Su-Jin KIM, Nobuhito OHTE, Masatoshi KAWASAKI

1400-225 HW01/09P/D-034 Poster
THE ROLE OF HORTONEAN OVERLANDFLOW IN STORM RUNOFF IN HINOKI PLANTATION, MIE, JAPAN
Yuichi ONDA, Maki TSUJIMURA, Daiji Harada HARADA, Taijiro FUKUYAMA

1400-226 HW01/09P/D-035 Poster
SPATIAL VARIATION OF AEOLIAN AND BEDROCK MATERIALS IN THE SURFACE SOIL ALONG A SLOPE IN THE KAWAKAMI BASIN, CENTRAL JAPAN
Yoriko YOKOO, Takanori NOKANO

1400-227 HW01/09P/D-036 Poster
ANTHROPOGENIC EVOLUTIONS OF PEAT SOILS AND CHANGES OF THEIR HYDROPHYSICAL PROPERTIES
Elena N. ROVDAN

1400-228 HW01/09P/D-037 Poster
SPATIAL VARIABILITY OF HYDROCHEMICAL DYNAMICS IN WEATHERED GRANITE CATCHMENTS
Masanori KATSUYAMA, Masayuki ITOH, Nobuhito OHTE, Hiroshi ITOH, Makoto TANI

1400-229 HW01/09P/D-038 Poster
THE SPATIAL AND TEMPORAL VARIATION OF METHANE FLUX OF TEMPERATE FOREST WATERSHED
Masayuki ITOH, Nobuhito OHTE, Masanori KATSUYAMA, Masatoshi KAWASAKI

1400-230 HW01/09P/D-039 Poster
SPATIAL AND SEASONAL DISTRIBUTIONS OF DENITRIFICATION ZONE IN A FORESTED HEADWATER CATCHMENT IN CENTRAL JAPAN
Ken'ichi OSAKA, Nobuhito OHTE, Keisuke KOBAYASHI, Takuo NAKAJIMA, Masanori KATSUYAMA, Masatoshi KAWASAKI

1400-231 HW01/09P/D-040 Poster
THE ROLE OF FOREST VEGETATION ON THE SEASONALITY OF NITRATE CONCENTRATIONS IN STEEP HILLSLOPES
Yuko ASANO, Taro UCHIDA, Nobuhito OHTE, Masatoshi KAWASAKI

1400-232 HW01/09P/D-041 Poster
THE GROUNDWATER RECHARGE MECHANISM REVEALED BY STABLE ISOTOPES AND CHEMICAL SOLUTIONS ANALYSIS IN AN ARID AREA, WESTERN CHINA
Tomohiro AKIYAMA, Masayoshi NAKAWO, Jumpei KUBOTA, Yutaka AGETA, Yuki KONAGAYA

1400-233 HW01/09P/D-042 Poster
DRY DEPOSITION OF GASEOUS AND PARTICULATE MATTERS IN A JAPANESE CYPRESS FOREST
Tomoko OBOTE, Nobuhito OHTE, Masanori KATSUYAMA, Makoto TANI

1400-234 HW01/09P/D-043 Poster
CHANGING OF STRAMN WATER CHEMISTRY AFTER THE DISTURBANCE OF CLEAR-CUTTING
Naoko TOKUCHI, Keitaro FUKUSHIMA, Kouichi MOURI, Nobuhito OHTE

1400-235 HW01/09P/D-044 Poster
HYDROLOGICAL TRENDS AFTER SUB-DRAINAGE AT THE HOVI EXPERIMENTAL CATCHMENT, SOUTHERN FINLAND
Pertti Olavi SEUNA

1400-236 HW01/09P/D-045 Poster
NUTRIENTS RUNOFF FROM AN ABANDONED ARTIFICIAL FOREST OF CAMAECYPARIS OBTUSA DURING STORM EVENTS
Junichiro IDE, Osamu NAGAFUCHI, Atsushi KUME, Kyoichi OTSUKI, Shigeru OGAWA

1400-237 HW01/09P/D-046 Poster
MONITORING STABLE ISOTOPE HYDROLOGY AT THE FU-SHAN FOREST RESEARCH CENTER, TAIWAN
Jeffrey S. OWEN, C.H. WANG, Y.J. HSIA, H.B. KING, L.J. WANG

1400-238 HW01/09P/D-047 Poster
ANTHROPOGENIC CHANGE AND THE WATER CYCLE: OUR SEARCH FOR MAUNA LOA
Charles J. VOROSMARTY

1400-239 HW01/09P/D-048 Poster
MASS TRANSPORT MODELING FOR ASSESSMENT OF GROUNDWATER POLLUTION IN BOLARAM INDUSTRIAL DEVELOPMENT AREA AND ENVIRONS, MEDAK DISTRICT, A.P.
Gurunatha rao VVGS, Subrahmanyam KAMBHAMPATI

1400-240 HW01/09P/D-049 Poster
PESTICIDE AND NUTRIENT LOADINGS IN THE RIANA RIVER WITHIN THE LAKE VICTORIA - DRAINAGE BASIN
George ONGWENYI, John M. NYANGAGA

1400-241 HW01/09P/D-050 Poster
ASSESSMENT OF IRRIGATION IMPACT ON WATER RESOURCES OF PANGANI RIVER BASIN IN TANZANIA
Simon Hosea MKHANDI, George Venance LUGOMELA

1400-242 HW01/09P/D-051 Poster
STUDIES ON THE EFFECT OF SOIL PROPERTIES ON RETENTION OF HAZARDOUS ORGANICS ON HAZARDOUS WASTE DUMPSITES.
Zareen KHAN, Anjaneyulu Y.

1400-243 HW01/09P/D-052 Poster
GROUNDWATER FLOW SYSTEM ESTIMATED BY WATER QUALITY
Yusaku TAGUCHI

HW04 Wednesday, July 9 PM

SYSTEMS MODELING OF GLOBAL WATER DYNAMICS (ICWRS)

Location: Site C, Room 31

Presiding Chair: Z. Xu

1400 HW04/09P/C31-001
MODIFICATION OF RESERVOIR OPERATION RULES BASED ON MATHEMATICAL SIMULATION AND OPTIMISATION APPROACHES
Manfred Walter OSTROWSKI

1420 HW04/09P/C31-002
URBAN HYDROLOGY AND RECLAMATION POTENTIAL OF URBAN STORMWATER
Parviz MONADJEMI, N. VASSELI

1440 HW04/09P/C31-003
STORM LOSS STUDIES FOR THE BREMER RIVER CATCHMENT IN AUSTRALIA
Mahbub ILAHEE

1500 HW04/09P/C31-004
A REMOVED DYNAMICAL MODEL OF A GEYSER INDUCED BY INFLOW OF GAS
Hiroyuki KAGAMI

1520 HW04/09P/C31-005
NEURAL NETWORKS & FRACTAL MODELLING THE FRUSTRATED AQUIFER SYSTEMS: ANNUAL RUNOFF ANALYSIS
Natalie LOBODA

1540 HW04/09P/C31-006
RELATIONSHIP ANALYSIS BETWEEN MULTI-YEAR SOIL MOISTURE AND CLIMATE CHANGE OF NORTHWEST OF CHINA
Mingguo MA

HW08 Wednesday, July 9 PM

PARAMETER ESTIMATION TECHNIQUES (IAHS/WMO WORKING GROUP ON GEWEX WITH THE SUPPORT OF ICSW AND ICASVR)

Location: Site C, Room 28

Presiding Chairs: M. Sivapalan, H. Gupta

MOPEX'S CONTRIBUTION TO PUB AND MOPEX FUTURE PLAN AND DIRECTION

1420 HW08/09P/C28-001 Invited
MOPEX'S CONTRIBUTIONS TO PUB: FROM GAGED TO UNGAGED BASINS
John SCHAAKE, Qingyun DUAN

1450 HW08/09P/C28-002
RIVER FLOW SIMULATION WITHIN UNGAUGED CATCHMENTS; THE UTILITY OF GENERALISED MODELS
Andy R. YOUNG

1510 BREAK

1530 MODERATED DISCUSSION



MI05 Wednesday, July 9 PM

LARGE SCALE PATTERNS OF ATMOSPHERIC VARIABILITY: DYNAMICS, CLIMATE IMPACTS, AND ROLE IN RECENT CLIMATE CHANGE (ICCI)

Location: Site B, Room 17

Presiding Chairs: Y. Kosaka, M. Ogi

1400 MI05/09P/B17-001 Invited
THE NAM AND PNA-LIKE PATTERNS AS A FRAMEWORK FOR INTERPRETING WINTERTIME LOW FREQUENCY ATMOSPHERIC VARIABILITY
Roberta QUADRELLI, John M. WALLACE

1440 MI05/09P/B17-002
UNDERSTANDING ANNULAR VARIABILITY IN THE TROPICS
David W.J. THOMPSON

1500 MI05/09P/B17-003
THE SYNOPTICS INDIVIDUAL PNA EVENTS
Steven B. FELDSTEIN

1520 MI05/09P/B17-004
ATMOSPHERIC BLOCKING - A DYNAMICAL PERSPECTIVE ON CLIMATE MODES?
Cornelia SCHWIERZ, Mischa CROSI MASPOLI, Huw C. DAVIES

1540 BREAK

1610 MI05/09P/B17-005
STORM TRACKS AND PATTERNS OF CLIMATE VARIABILITY
Brian HOSKINS, Kevin HODGES

1630 MI05/09P/B17-006
THE TRANSITIONAL PROCESSES OF THE SOUTHERN HEMISPHERE ANNULAR MODE
Hideo SHIOGAMA, Toru TERAOKA, Hideji KIDA, Tatsuya IWASHIMA

1650 MI05/09P/B17-007
THE ARCTIC OSCILLATION AS A RESPONSE TO TROPICAL FORCING
Hai LIN, Jacques DEROME

1710 MI05/09P/B17-008
OBSERVED INFLUENCES OF AMAZON RAINFALL ON NORTH ATLANTIC OSCILLATION AND THE WINTER CLIMATE OVER NORTH ATLANTIC AND ADJACENT CONTINENTS
Rong FU, Mingxuan CHEN

1730 MI05/09P/B17-009
INTRASEASONAL INFLUENCES OF TROPICAL CIRCULATIONS ON THE NORTHERN ANNULAR MODE
Shuntai ZHOU, Alvin J. MILLER

MI06 Wednesday, July 9 PM

THE DYNAMICS OF MID-LATITUDE AND POLAR WEATHER SYSTEMS OVER THE OPEN OCEAN (ICPM, ICDM)

Location: Site B, Room 20

1400 MI06/09P/B20-001
ANALYSIS OF THE UPPER COLD LOW IN THE SUMMER NORTH PACIFIC
Kei SAKAMOTO, Masaaki TAKAHASHI

1420 MI06/09P/B20-002
NUMERICAL STUDIES OF ATMOSPHERIC KELVIN WAVES OFF THE WEST COAST OF GREENLAND
Rebekah E. MARTIN, G.W.K. MOORE

1440 MI06/09P/B20-003
ATMOSPHERIC RESPONSE TO MID-LATITUDE THERMAL FORCING: IMPLICATIONS FOR CLIMATE REGIMES
Peter G. BAINES

1500 MI06/09P/B20-004
ON THE ROLE OF SYNOPTIC DISTURBANCES AND LOW-FREQUENCY VARIATIONS IN BLOCKING FLOWS
Miki ARAI, Hitoshi MUKOUGAWA

1520 MI06/09P/B20-005
ANALYSIS OF THE ORIGIN STRUCTURE AND MOVEMENT OF THE MEDITERRANEAN DEPRESSIONS
Farhang AHMADI-GIVI, Mohammad Ali NASR ESFAHANI

1540 MI06/09P/B20-006
POLAR LOW GENESIS OVER THE EAST COAST OF ASIAN CONTINENT SIMULATED IN AGCM
Kozo NINOMIYA, Teruyuki NISHIMURA, Takeshi ENOMOTO, Tuneaki SUZUKI, Shinji MATUMURA

1600 BREAK

1620 MI06/09P/B20-007
SHORT-WAVE BAROCLINIC DEVELOPMENT OVER A WARM OCEAN
Maurizio FANTINI

1640 MI06/09P/B20-008
DEFORMATION AND MOBILE TROUGH SUPPRESSION OVER EAST ASIA
Boksoon MYOUNG, John W. NIELSEN-GAMMON

1700 MI06/09P/B20-009
CYCLONES OVER THE FRAM STRAIT
Burghard BRUEMMER, Gerd MUELLER

1720 MI06/09P/B20-010
COMPARATIVE CLIMATOLOGY OF SYNOPTIC AND MESO-SCALE CYCLONIC EDDIES OVER NORTHERN AND SOUTHERN ICE OCEANS
Victor E. LAGUN, Eduard I. LOUITSSENKO

**WEEK
B
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1740 MI06/09P/B20-011
UPPER-LEVEL DYNAMICAL EFFECTS OF A HURRICANE UPON THE EXTRATROPICAL DOWNSTREAM EVOLUTION
Cornelia SCHWIERZ, Olivia MARTIUS, Huw C. DAVIES

MI09 Wednesday, July 9 PM

NEW INSTRUMENTS AND TECHNOLOGY, ADVANCES IN REMOTE SENSING

Location: Site B, Room 22

1400 MI09/09P/B22-001
TM IMAGE CLASSIFICATION OF ZHALONG WETLAND (CHINA) USING NEURAL NETWORK
Min HAN, Lei CHENG, Qingyu ZHOU

1420 MI09/09P/B22-002
BALLOON-BORNE ALL SKY/ GROUND IMAGING OBSERVATION AND ITS APPLICATION TO THE VERIFICATION OF RADIATIVE-TRANSFER COMPUTATION
Daren LU, Wen xin ZHANG, Juan HUO

1440 MI09/09P/B22-003
AESMIR: A NEW NASA AIRBORNE MICROWAVE IMAGER
Edward KIM

1500 MI09/09P/B22-004
NETWORK OF VECTOR ELECTRIC FIELDMILS FOR THUNDERSTORM WARNING AT ROCKET LAUNCHING STATIONS
Dattatraya B. JADHAV, R. VIJAYAKUMAR, D.R. JADHAV, G.V. RAMA

1520 CLOSING REMARKS

MC03 Wednesday, July 9 PM

DYNAMICS AND VARIABILITY OF MONSOON SYSTEMS (ICDM)

Location: Site A, Room 7

Presiding Chairs: E.H. Berbery, G. Wu

1400 MC03/09P/A07-001 Invited
THE INDIAN SUMMER MONSOON-MEDITERRANEAN DYNAMICAL CONNECTION: THE CAUSE OF EUROPEAN FLOODS IN 2002?
Mike BLACKBURN, Brian HOSKINS

1440 MC03/09P/A07-002
MAINTENANCE OF SUMMER MONSOON CIRCULATIONS: A PLANETARY-SCALE PERSPECTIVE
Tsing-Chang (Mike) CHEN

1500 BREAK

1520 MC03/09P/A07-003
DYNAMICS OF THE ATMOSPHERIC CIRCULATION ANOMALIES ASSOCIATED WITH THE NORTH AMERICAN MONSOON VARIABILITY
Mingfang TING, Renu JOSEPH

1540 MC03/09P/A07-004
RESPONSE OF THE ASIAN SUMMER TO CHANGES IN ENSO PROPERTIES
H. ANNAMALAI, P. LIU

1600 BREAK

1620 MC03/09P/A07-005
THE ROLE OF THE ATMOSPHERIC HEATING OVER THE TIBETAN PLATEAU IN THE FORMATION OF THE MONSOON WESTERLY
Kenji TANIGUCHI, Toshio KOIKE

1640 MC03/09P/A07-006
THE ROLE OF MONSOON CIRCULATIONS IN THE DYNAMICS AND TRANSPORT OF THE TROPICAL UPPER TROPOSPHERE AND LOWER STRATOSPHERE IN NORTHERN HEMISPHERE SUMMER
Timothy J. DUNKERTON, Andrew GETTELMAN

1700 MC03/09P/A07-007
INTERACTIONS AMONG HADLEY, WALKER AND MONSOON CIRCULATIONS OVER THE INDONESIAN MARITIME CONTINENT
Manabu D. YAMANAKA, Noriko OKAMOTO, Jun-Ichi HAMADA, Tien SRIBIMAWATI

1720 MC03/09P/A07-008
A COUPLED GCM STUDY ON THE EFFECT OF MOUNTAIN UPLIFT ON ASIAN MONSOONS
Akio KITOH

1740 MC03/09P/A07-009
RELATIONSHIPS BETWEEN WINTER AND SUMMER MONSOONS OVER EAST ASIA
Man Chi WU, Johnny C.L. CHAN

MC05 Wednesday, July 9 PM

MIDDLE ATMOSPHERE SCIENCE (ICMA)

Location: Site A, Room 9

Presiding Chair: M.J. Alexander

1400 MC05/09P/A09-001 Invited
QUASI-STATIONARY PLANETARY WAVES IN THE UPPER MESOSPHERE
Anne K. SMITH

1430 MC05/09P/A09-002 Invited
WHAT DAMPS THE VERTICALLY PROPAGATING DIURNAL TIDE IN THE MESOSPHERE AND LOWER THERMOSPHERE?
Charles MCLANDRESS

1500 MC05/09P/A09-003
GLOBAL DISTRIBUTIONS OF DIURNAL AND SEMI-DIURNAL TIDES: OBSERVATIONS FROM HRDI-UIARS OF THE MLT REGION AND COMPARISONS WITH GSWM 2002 (MIGRATING, NON-MIGRATING TIDES)
Alan H. MANSON, Chris MEEK, Maura HAGAN, Xiaoli ZHANG, Yi LUO

1520 MC05/09P/A09-004
THE GENERATION OF STATIONARY WAVES AND NONMIGRATING TIDES IN THE UPPER ATMOSPHERE
Elsayed R. TALAAT, Hans G. MAYR, Jeng-Hwa YEE, John S. MENGEL, Ruth S. LIEBERMAN, James M. RUSSELL III, H.S. PORTER

1540 MC05/09P/A09-005
ON THE EASTWARD TRAVELLING WAVENUMBER TWO IN THE NORTHERN STRATOSPHERE
Kirstin KRUEGER, Steven PAWSON

1600 MC05/09P/A09-006
INTERACTION BETWEEN MEDIUM-SCALE TROPOPAUSAL WAVES AND SHORT-PERIOD DISTURBANCES TRAPPED AROUND THE POLAR VORTEX EDGE
Yoshihiro TOMIKAWA, Kaoru SATO

1620 BREAK

1640 MC05/09P/A09-007
ISENTROPIC EXPRESSION OF ELIASSEN-PALM FLUX
Toshiki IWASAKI, Daisuke TANAKA

1700 MC05/09P/A09-008
INTRASEASONAL OSCILLATIONS OF THE ZONAL WIND NEAR THE MESOPAUSE OBSERVED WITH MF AND METEOR RADARS IN THE TROPICS
Fusako ISODA

1720 MC05/09P/A09-009
A THEORETICAL STUDY OF IONIZATION DURING NOCTILUCENT CLOUD
Dipak K. CAKRABARTY

1740 MC05/09P/A09-010
CHEMICAL AND DYNAMICAL RESPONSE OF HIGH LATITUDE MIDDLE ATMOSPHERE TO SOLAR PROTON EVENT: 3D MODEL STUDY
Alexei A. KRIVOLUTSKY, Tatyana Yu. VYUSHKOVA, Anna V. KLYUCHNIKOVA, Adolf EBEL, Alexsander A. KUMINOV, Georgy R. ZAKHAROV



SS04a-Posters Wednesday, July 9 PM

STRONG GROUND MOTION, EARTHQUAKE HAZARD AND RISK

Location: Site D

Presiding Chairs: Y.M. Wu, G.F. Panza, K. Kudo

1400-250 SS04a/09P/D-001 Poster
AMPLIFICATION CHARACTERIZATION OF K-NET, KIK-NET, AND JMA SITES BASED ON THE SPECTRAL INVERSION TECHNIQUE
Hiroshi KAWASE, Hidenori MATSUO

1400-251 SS04a/09P/D-002 Poster
EARTHQUAKE OBSERVATION USING HOT SPRING BOREHOLE AND MICROTREMOR ARRAY SURVEY IN SOUTHWEST PART OF NAGOYA CITY
Yoshihiro SAWADA, Hideki NAGUMO, Kazuaki MASAKI, Miyako NORITA, Susumu KURAHASHI

1400-252 SS04a/09P/D-003 Poster
TEMPORAL AND SPECIAL CHARACTERISTICS OF STRONG GROUND MOTION WAVE FIELD IN THE TAIPEI BASIN DURING THE M 7.1 EASTERN TAIWAN OFFSHORE EARTHQUAKE OF 31 MARCH 2002
Yi-Ling HUANG, Bor-Shouh HUANG, Kuo-Liang WEN

1400-253 SS04a/09P/D-004 Poster
THE DURATION-DISTANCE RELATIONSHIP AND AVERAGE ENVELOPE SHAPES OF SMALL KAMCHATKA EARTHQUAKES
Anatoly G. PETUKHIN, Alexander A. GUSEV

1400-254 SS04a/09P/D-005 Poster
THE FIRST MODEL FOR SCALING OF RESPONSE SPECTRA OF STRONG GROUND MOTION RECORDED ON KAMCHATKA
Anatoly G. PETUKHIN, Alexander A. GUSEV, Evgeniya M. GUSEVA, Evgenii I. GORDEEV, Victor N.CHEBROV

1400-255 SS04a/09P/D-006 Poster
EVALUATION OF THE GROUNDS?EPARAMETERS ON THE EXAMPLE OF THE STRONG EARTHQUAKES OF THE CAUCASUS
Levon Garnik SUVARYAN

1400-256 SS04a/09P/D-007 Poster
EXTENDED STOCHASTIC SIMULATION METHOD FOR THE VERTICAL STRONG GROUND MOTIONS
Boming ZHAO, Masanori HORIKE

1400-257 SS04a/09P/D-008 Poster
GROUND MOTION CHARACTERISTICS IN THE TAIPEI BASIN (NORTHERN TAIWAN) DURING LARGE EARTHQUAKES OF DIFFERENT LOCATION
Vladimir Yu. SOKOLOV, Wen-Yu JEAN, Chin-Hsiung LOH, Kuo-Liang WEN

1400-258 SS04a/09P/D-009 Poster
THE ATTENUATION OF VERTICAL AND TWO HORIZONTAL GROUND MOTIONS
Guoxin WANG

1400-259 SS04a/09P/D-010 Poster
LONG-PERIOD GROUND MOTION FD SIMULATION DURING 1984 WESTERN PART OF NAGANO PREFECTURE EARTHQUAKE-THE INFLUENCE OF 3D UNDERGROUND STRUCTURE IN KANTO PLAIN-
Nobuyuki YAMADA, Hiroaki YAMANAKA, Shin KOYAMA

1400-260 SS04a/09P/D-011 Poster
REDUCTION OF GROUND MOTION VARIABILITY USING THE VARIANCE COMPONENTS TECHNIQUE
Chu-Chuan P. TSAI, Yi-Hau CHEN

1400-261 SS04a/09P/D-012 Poster
SIMULATION OF GROUND MOTIONS DURING THE 1993 HOKKAIDO-NANSEI-OKI EARTHQUAKE BY EMPIRICAL GREEN'S FUNCTION METHOD AND STOCHASTIC GREEN'S FUNCTION METHOD - VERIFICATION OF CHARACTERIZING PROCEDURE OF EARTHQUAKE SOURCE MODEL FOR STRONG MOTION PREDICTION -
Akira FUKUKITA, Jun'ichi MIYAKOSHI, Kazuo DAN, Kazuhiko YASIRO

1400-262 SS04a/09P/D-013 Poster
SIMULATION OF ACCELERATION SPECTRA OF 1986 DHARMSALA EARTHQUAKE USING RANDOM VIBRATION THEORY
Shikha RAJPUT, Sanjeev KUMAR

1400-263 SS04a/09P/D-014 Poster
GROUND MOTION CHARACTERISTIC IN THE KAOHSIUNG AREA, TAIWAN
Hsien Jen CHIANG, Kuo Liang WEN, Tao Ming CHANG

1400-264 SS04a/09P/D-015 Poster
STRONG MOTION PARAMETERS ESTIMATION IN THE NEAR SOURCE: APPLICATION TO THE 1688 DESTRUCTIVE SOUTHERN APENNINES (ITALY) EARTHQUAKE
Giovanni IANNACCONE, Mariateresa BONAGURA, Vincenzo NISII, Luigi IMPROTA, Antonio EMOLO

1400-265 SS04a/09P/D-016 Poster
STRONG GROUND MOTION SIMULATION USING DYNAMIC RUPTURE MODEL
Takashi MIYATAKE

1400-266 SS04a/09P/D-017 Poster
STRONG MOTION SIMULATION FOR THE 1999 DUZCE EARTHQUAKE WITH STOCHASTIC GREEN'S FUNCTION METHOD:AMPLITUDE AND PHASE CHARACTERISTICS OF THE DUZCE BASIN
Gulum BIRGOREN, Aaron MOYA, Kojiro IRIKURA

1400-267 SS04a/09P/D-018 Poster
GROUND MOTION PREDICTION IN THE OSAKA BASIN BASED ON DYNAMIC RUPTURE SCENARIOS AND THREE-DIMENSIONAL UNDERGROUND STRUCTURE MODEL
Haruko SEKIGUCHI, Yuko KASE, Haruo HORIKAWA, Tatsuya ISHIYAMA, Kenji SATAKE, Yuichi SUGIYAMA, Arben PITARKA

1400-268 SS04a/09P/D-019 Poster
NEW PEAK GROUND ACCELERATION MAPS FOR EGYPT
Mohamed Ahmed GAMAL, Yehia Elsaid ABDELHADY

1400-269 SS04a/09P/D-020 Poster
SHOULD WE CONSIDER SEA IN SIMULATING SEISMIC GROUND MOTION?: SOME NUMERICAL EXPERIMENTS
Ken HATAYAMA

1400-270 SS04a/09P/D-021 Poster
VOXEL FINITE ELEMENT METHOD FOR 3-D ELASTODYNAMIC ANALYSIS
Hiroyuki FUJIWARA, Tadaomi FUJIEDA

1400-271 SS04a/09P/D-022 Poster
NEAR REAL-TIME MAGNITUDE DETERMINATION FOR LARGE EARTHQUAKES
Yih-Min WU, Ta-liang TENG

1400-272 SS04a/09P/D-023 Poster
REGRESSION ANALYSIS TO ESTIMATE MAGNITUDES FROM MACROSEISMIC OBSERVATIONS - COMPARISON OF DIFFERENT METHODS AND APPLICATION TO EARTHQUAKES IN EUROPE
Diethelm KAISER, Rolf GUTDEUTSCH, Guenter LEYDECKER

1400-273 SS04a/09P/D-024 Poster
STATISTICAL ANALYSIS OF JMA SEISMIC INTENSITY DIFFERENCES USING SEISMOMETER ARRAY RECORDS
Hidenori MOGI, Hideji KAWAKAMI

1400-274 SS04a/09P/D-025 Poster
RADIATION PATTERN OF SEISMIC MOTION IN SHORT PERIOD RANGE-SPECTRAL RATIO OF TWO SAME LOCATION AND MAGNITUDE EARTHQUAKES-
Ryoichi NAKAMURA, Kazuhiko YASHIRO

1400-275 SS04a/09P/D-026 Poster
THREE DIMENSIONAL ATTENUATION STRUCTURE ESTIMATED FROM STRONG MOTION DATA AND ITS APPLICATION TO STRONG MOTION PREDICTION
Ryoichi NAKAMURA, Tomiichi UETAKE

1400-276 SS04a/09P/D-027 Poster
STRONG MOTION SIMULATION CONSIDERING FREQUENCY DEPENDENT RADIATION PATTERN
Shinichi MATSUSHIMA, Toshiaki SATO, Toshimi SATOH, Motofumi WATANABE, Takashi HAYAKAWA

1400-277 SS04a/09P/D-028 Poster
A METHOD FOR EXTRACTING SLIP TIME FUNCTIONS SPATIALLY CONTINUOUS ON A FAULT PLANE FROM RESULTS OF CONVENTIONAL SOURCE INVERSION
Hiroshi TAKENAKA, Yushiro FUJII, Hiroshi KAWASE, Ken MIYAKOSHI, Tomotaka IWATA

1400-278 SS04a/09P/D-029 Poster
SOURCE MODELS OF TWO LARGE INTRA-SLAB EARTHQUAKES FOR BROADBAND STRONG GROUND MOTIONS
Nobuyuki MORIKAWA, Tsutomu SASATANI

1400-279 SS04a/09P/D-030 Poster
DIFFERENCES IN GROUND MOTION AND FAULT RUPTURE MODELS BETWEEN SURFACE AND BURIED RUPTURE EARTHQUAKES
Takao KAGAWA, Kojiro IRIKURA, Paul G. SOMERVILLE

1400-280 SS04a/09P/D-031 Poster
A STUDY ON DEVELOPPING 3-D BASIN STRUCTURE MODEL CORRESPONDING TO INFORMATION AVAILABLE IN THE TARGET AREA
Takao KAGAWA, Boming ZHAO, Ken MIYAKOSHI

1400-281 SS04a/09P/D-032 Poster
CHARACTERIZATION OF SOURCE PARAMETERS OF DYNAMIC FAULTING FOR STRONG GROUND MOTION PREDICTION
Kojiro IRIKURA, Hiroe MIYAKE, Luis A. DALGUER

1400-282 SS04a/09P/D-033 Poster
3D GRAVITY BASEMENT STRUCTURE ASSOCIATED WITH ACTIVE FAULTS IN THE MIDDLE PART OF KINKI DISTRICT, WEST JAPAN
Masao KOMAZAWA, Kajuro NAKAMURA, Keiichi NISHIMURA, Junpei AKAMATSU, Ryuichi SHICHI, Akihiko YAMAMOTO

1400-283 SS04a/09P/D-034 Poster
SUGGESTION AND FEASIBILITY TESTS OF A NEW METHOD TO EXTRACT PHASE VELOCITIES OF RAYLEIGH WAVES FROM MICROSEISMS
Ikuro CHO, Takuya SHIGA, Taku TADA, Yuzo SHINOZAKI

1400-284 SS04a/09P/D-035 Poster
ESTIMATION OF S-WAVE VELOCITY STRUCTURES BENEATH URBAN AREAS BY USING MICROTREMOR H/V SPECTRA TECHNIQUE BASED ON BOTH RAYLEIGH- AND LOVE- WAVES
Hidekazu YAMAMOTO, Minoru TESHIMA, Tsuyoshi SANO, Tokumi SAITO

1400-285 SS04a/09P/D-036 Poster
THE VELOCITY STRUCTURE ESTIMATION AND THE SHAPE DETERMINATION OF ILAN BASIN, TAIWAN
Tao-Ming CHANG, Yeou-Jyh HWANG, Kuo-Liang WEN

1400-286 SS04a/09P/D-037 Poster
ESTIMATE ENAR SURFACE VELOCITY STRUCTURE USING RECEIVER FUNCTION TECHNIQUE
Tao-Ming CHANG, Jer-Ming LIN, Kuo-Liang WEN

1400-287	SS04a/09P/D-038	Poster
A MODEL OF THE SUBSURFACE STRUCTURE BENEATH THE OSAKA SEDIMENTARY BASIN, SOUTHWEST JAPAN Haruo HORIKAWA, Kiyohide MIZUNO, Tatsuya ISHIYAMA, Haruko SEKIGUCHI, Yuko KASE, Kenji SATAKE, Takanobu YOKOKURA, Yuichi SUGIYAMA, Hiroshi YOKOTA, Masaki SUEHIRO, Arben PITARKA		
1400-288	SS04a/09P/D-039	Poster
THREE DIMENSIONAL SUBSURFACE STRUCTURE OF THE NOBI PLAIN Hideki NAGUMO, Yoshihiro SAWADA, Suqun LING		
1400-289	SS04a/09P/D-040	Poster
ESTIMATION OF Q-VALUE IN KINKI REGION, JAPAN, BY ELIMINATION OF ELASTIC ATTENUATION EFFECT USING RAY THEORY APPROXIMATION IN 3-D VELOCITY MODEL Anatoly G. PETUKHIN, Kojiro IRIKURA, Takao KAGAWA, Shiro OHMI		
1400-290	SS04a/09P/D-041	Poster
UPPER MANTLE QS STRUCTURE AND ITS EFFECTS ON STRONG GROUND MOTIONS Takahiro MAEDA, Tsutomu SASATANI		
1400-291	SS04a/09P/D-042	Poster
INVERSION OF QS OF SEDIMENTS FROM VERTICAL ARRAY SEISMOGRAMS USING SIMULATED ANNEALING METHOD Toshimi SATOH		
1400-292	SS04a/09P/D-043	Poster
3D HYBRID SIMULATION OF THE SOURCE AND SITE EFFECTS DURING THE 1999 ATHENS EARTHQUAKE Ivo OPRSA, Jiri ZAHRAĐNIK, Anna SERPETSIDAKI, G-Akis TSELENTIS		
1400-293	SS04a/09P/D-044	Poster
THREE DIMENSIONAL FINITE-DIFFERENCE MODELING OF STRONG GROUND-MOTIONSITE EFFECTS DUE TO THE FINITE-EXTENT SOURCE - 1356 BASEL EARTHQUAKE,UPPER RHINE GRABEN Ivo OPRSA, Donat FAEH, Domenico GIARDINI		
1400-294	SS04a/09P/D-045	Poster
SEISMIC WAVE PROPAGATION IN THE 3D BASIN STRUCTURE OF NOBI PLAIN Akira KOTANI, Takashi FURUMURA, Kazuro HIRAHARA		
1400-295	SS04a/09P/D-046	Poster
EFFECTS OF GEOLOGICAL CONDITIONS ON THE GROUND SHAKING IN THE BUCHAREST URBAN AREA Neculai MANDRESCU, Gheorghe MARMUREANU, Mircea RADULIAN, Cristea CAPRA		
1400-296	SS04a/09P/D-047	Poster
SITE AMPLIFICATION STUDY IN ISTANBUL PROVINCE Nurcan Meral OZEL, Tsutomu SASATANI, Asim Oguz OZEL		
1400-297	SS04a/09P/D-048	Poster
PRELIMINARY RESULTS OF SITE EFFECTS ASSESSMENT IN THE CITY OF TEHRAN (IRAN) USING EARTHQUAKE AND MICROTREMOR RECORDING Pierre-Yves BARD, Ebrahim HAGHSHENAS, Mohammad JAFARI, Denis HATZFELD		
1400-298	SS04a/09P/D-049	Poster
LOOKING FOR SITE EFFECTS IN THE DAMAGE DISTRIBUTION – APPLICATION TO ANGRA DO HEROISMO (AZORES) USING MICROTREMORS MEASUREMENTS Paula TEVES-COSTA, Luisa SENOS		
1400-299	SS04a/09P/D-050	Poster
ASSESSMENT OF SITE EFFECT IN ROMANIA DURING INTERMEDIATE DEPTH VRANCEA EARTHQUAKES USING DIFFERENT TECHNIQUES Vladimir Yu. SOKOLOV, Klaus-Peter BONJER, Mihaela RIZESCU		

SW04	Wednesday, July 9 PM
EFFECTS OF EARTHQUAKES ON MEGACITIES	
Location: Site A, Room 13	
Program Group Y.-T. Chen, K. Irikura, F. Romanelli Presiding Chairs: Y.-T. Chen, K. Irikura	

1400	SW04/09P/A13-001
SEISMIC VULNERABILITY OF INDIA'S URBAN AREAS Sitharama Murty KOTTAPALLI	
1415	SW04/09P/A13-002
MODELLING OF SEISMIC GROUND MOTION AND ITS AMPLIFICATION ALONG SOME 2-D PROFILES IN THE CITY OF DAMASCUS, SYRIA Randa MOHAMAD, Peter SUHADOLC, Franco VACCARI , Wathek RASOUL-AGHA	
1430	SW04/09P/A13-003
RUPTURE PROCESS OF THE KUNLUN MOUNTAIN PASS EARTHQUAKE OF NOVEMBER 14, 2001 FROM LONG PERIOD WAVEFORM DATA Yuntao CHEN, Lisheng XU	

1445	SW04/09P/A13-004
EARTHQUAKE FATALITY SYNDROME Vasile I. MARZA	
1500	SW04/09P/A13-005
EVALUATION OF THE CITY'S ABILITY FOR SEISMIC DISASTER PREVENTION Li-Li XIE, Feng-Hua ZHANG	
1515	SW04/09P/A13-006
DAMAGE AT AHMEDABAD CITY DUE TO INTRAPLATE MW 7.7 BHUJ, INDIA EARTHQUAKE OF 26 JANUARY 2001 Bal Krishna RASTOGI, Prantik MANDAL	

1530	BREAK
1545	SW04/09P/A13-007
CATALOGUE BY LOSSES FORMATION FACTORS INFLUENCE VULNERABILITY OF BUILDING AND CONSTRUCTIONS IN SEISMOACTIVE TERRITORIES OF UZBEKISTAN Ikramov TIMUR	
1600	SW04/09P/A13-008
SEISMIC RISK IN THE NEW CITIES OF THE UNITED ARAB EMIRATES, AN APPROXIMATE ESTIMATE Max WYSS, Azm AL HOMOUD	
1615	SW04/09P/A13-009
ISTANBUL EARTHQUAKE RAPID RESPONSE AND EARLY WARNING SYSTEM Mustafa Ozder ERDIK, Oguz Asim OZEL, Yasin FAHJAN, Hakan ALCIK, Aydin MERT, Muzaffer GUL	
1630	SW04/09P/A13-010
STRESS-MONITORING SITES FOR MITIGATING EARTHQUAKE HAZARD Stuart CRAMPIN, Yuan GAO, Sebastien CHASTIN, Theodora VOLTI	
1645	SW04/09P/A13-011
REALISTIC MODELING OF SEISMIC INPUT FOR MEGACITIES AND LARGE URBAN AREAS: THE UNESCO/IUGS/IGCP PROJECT 414 Giuliano Francesco PANZA, Fabio ROMANELLI	
1700	SW04/09P/A13-012
COSEISMIC GROWTH AND SEISMIC HAZARDS OF BLIND THRUST FAULTS IN THE OSAKA BASIN, JAPAN - THE UEMACHI FAULT SYSTEM Eric Christopher CANNON, Karl J. MUELLER, Yuichi SUGIYAMA, Naoko KITADA, Sean SUNDERMANN	
1715	SW04/09P/A13-013
DATA BANK OF THE SEISMIC SOIL RESPONSES FOR SOME DENSELY POPULATED AREAS IN ROMANIA Stefan Florin BALAN, Carmen Ortansa CIOFLAN, Gheorghe MARMUREANU, BogdanFelix APOSTOL	
1730	SW04/09P/A13-014
ASSESMENT OF SEISMIC POTENTIAL BENEATH SAPPORO-CITY AND ON-GOING ACTION PLAN FOR REDUCTION OF SEISMIC DISASTER minoru KASAHARA, Kunikazu YOSHIDA, Tsutomu SASATANI, Masayoshi ICHIYANAGI, Yoshihisa SUZUKI, Kazuyoshi MISONOU	
1745	SW04/09P/A13-015
STRONG GROUND MOTIONS IN OSAKA METROPOLITAN AREA FROM THE NEXT NANKAI-TROUGH EARTHQUAKES Kojiro IRIKURA, Hiroe MIYAKE, Tomotaka IWATA, Katsuhiro KAMAE, Hidenori KAWABE	

Paper Numbers

Oral Presentation

0830 JSV03/30A/A01-001

→ Sequence
→ Room No.
→ Site
→ Time
→ Date
→ Session code
→ Presentation time

Example: 0830 JSV03/30A/A01-001 = Presentation begins at 8:30, JSV03, June 30, presentation in the morning (AM), Site A, Room 1, first paper in that session

Poster Presentation

1600-001 JSA10/30P/D-001

→ Sequence
→ Site
→ Time
→ Date
→ Session code
→ Board No.
→ Core time

Example: 1600-001 JSA10/30P/D-001 = Core time begins at 16:00, Poster Board No.: 001, JSA10, June 30, core time in the afternoon (PM), Site D, first paper in that session

Thursday, July 10 AM

IA INTER-ASSOCIATION

JSG03 Thursday, July 10 AM

INTERDISCIPLINARY SCIENCE FROM REMOTE SENSING - RADAR ALTIMETRY, ATSR, SAR, OCEAN COLOR AND OTHER SENSORS (IAG, IAHS, IAPSO, IASPEI, ISPRS)

Location: Site A, Room 12

Presiding Chair: P. Kundsén

0830 JSG03/10A/A12-001

APPLICATION OF THE SATELLITE ALTIMETRY AND RADIOMETRY FOR ANALYSIS OF ANTHROPOGENIC POLLUTANTS OF A MARINE ENVIRONMENT
Sergey A. LEBEDEV

0850 JSG03/10A/A12-002

SYNERGISTIC USE OF NEAR-REAL TIME RADAR ALTIMETRY AND ATSR-2 DATA FOR OCEAN CIRCULATION STUDIES AROUND CAPE VERDE
C. LAZARO, M.J. FERNANDES

0910 JSG03/10A/A12-003

OCEAN CIRCULATION AND TRANSPORT BETWEEN THE NORTH ATLANTIC AND THE ARCTIC SEA, (OCTAS)
Hans-Peter PLAG, Helge DRANGE, Arne GIDSKEHAUG, Johnny A. JOHANNESSEN, Hossein NAHAVANDCHI, Ove Christian Dahl OMANG, Dag SOLHEIM

0930 JSG03/10A/A12-004

COMBINED REMOTE SENSING OF OCEAN COLOR, RADIATION TEMPERATURE AND RADAR ALTIMETRY IN THE TRANSITION ZONE BETWEEN THE NORTH SEA AND THE BALTIC SEA
Niels Kristian HOEJERSLEV

0950 JSG03/10A/A12-005

ICESAT LASER ALTIMETRY GEODETIC RESULTS
Bob Ewald SCHUTZ

1010 BREAK

1040 JSG03/10A/A12-006

ADVANCE TECHNOLOGY OF REMOTE SENSING, GIS AND GPS FOR SEISMIC HAZARD ASSESSMENT
Trinh Trong PHAN, Hoang Quang VINH, Trinh Hai DOAN

1100 JSG03/10A/A12-007

HYPERPECTRAL REMOTE SENSING APPROACH FOR ROCK SURFACE MINERALOGY MAPPING IN ARID ENVIRONMENT
Patrick C. PINET, Esther HARRIS, Marie PYTHON, Georges CEULENEER, Yves DAYDOU, Aurélien CORD, Patrick LAUNEAU, Hilal AL AZRI, Sabine CHABRILLAT, Xavier LÉNOT, Stéphane CHEVREL

1120 JSG03/10A/A12-008

GLOBAL IONOSPHERIC MODELS BEHAVIOR AT DIFFERENT GEOMAGNETIC REGIONS AND AT DIFFERENT LOCAL TIME
Amalia Margarita MEZA, Alejandro Raul DIAZ, Claudio Antonio BRUNINI

1140 JSG03/10A/A12-009

MEASURING STRATOSPHERIC AEROSOLS, POLAR MESOSPHERIC CLOUDS AND POLAR STRATOSPHERIC CLOUDS USING THE GOMOS EXPERIMENT ONBOARD ENVISAT
Filip VANHELLEMONT, Didier FUSSEN, Christine BINGEN

JSA07 Thursday, July 10 AM

REGIONAL CRUSTAL MODELS BASED ON SEISMIC, ELECTROMAGNETIC, POTENTIAL FIELD, AND GEOTHERMAL STUDIES (IAGA, IASPEI)

Location: Site A, Room 5

Convener: J.V. Korhonen

Co-Conveners: F. Freund, W.D. Mooney

Presiding Chairs: J.V. Korhonen, W.D. Mooney

0830 JSA07/10A/A05-001 Invited

DENSITY STRUCTURE OF THE UPPER MANTLE UNDER NORTH AMERICA
Walter D. MOONEY, Mikhail K. KABAN

0900 JSA07/10A/A05-002

THE ELECTRICAL LITHOSPHERE OF NORTHWESTERN CANADA
Alan G. JONES, Juanjo LEDO, Ian J. FERGUSON

0920 JSA07/10A/A05-003

3-D ELECTRICAL CONDUCTIVITY MODEL OF THE SLAVE CRATON LITHOSPHERE
Pamela LEZAETA, Alan CHAVE, Alan G. JONES, Rob EVANS

0940 JSA07/10A/A05-004

HIGH-RESOLUTION GEOPHYSICAL IMAGING OF A VOLCANIC MARGIN: ISLE OF SKYE (SCOTLAND)
Sophie HAUTOT, Pascal TARITS, the SIMBA Team

1000 JSA07/10A/A05-005

EVOLUTION AND COLLISION RELATED STRUCTURE OF THE EARLY PRECAMBRIAN LITHOSPHERE IN THE EASTERN FENNOSCANDIAN SHIELD: SYNTHESIS OF DEEP REFLECTION PROFILING, GEOLOGICAL AND GEOCHRONOLOGICAL DATA

Michael V. MINTS, Robert G. BERZIN, Alexander N. KONILOV, Vladimir M. STUPAK, Arsen K. SULEIMANOV, Nadezhda G. ZAMOZHNIYA, Valery L. ZLOBIN

1020 BREAK

1050 JSA07/10A/A05-006

LITHOSPHERIC SOURCES OF MAGNETIC AND GRAVITY ANOMALIES OF THE FENNOSCANDIAN SHIELD
Juha Ville KORHONEN, Heikki SÄÄVUORI, Tapio KOISTINEN

1110 JSA07/10A/A05-007

GIS BASED SATELLITE MAGNETIC FIELD MODELLING RESULTS FOR THE EUROPEAN PLATFORM
Kumar HEMANT, Stefan MAUS

1130 JSA07/10A/A05-008

MAGNETIC MODELS FOR THE DIFFERENT GEOLOGICAL STRUCTURES OF THE SOUTH-WESTERN PART OF THE EAST EUROPEAN CRATON
Mikhail I. ORLYUK, Inna K. PASHKEVICH, Svetlana V. ELISEEVA

1150 JSA07/10A/A05-009

CRUSTAL MODELS AND EVOLUTION OF THE MARGINS OF EAST-EUROPEAN CRATON IN RUSSIA BASED ON SEISMIC AND POTENTIAL FIELD STUDIES
Sergey Leonidovich KOSTYUCHENKO, Anatoliy Vasilievich EGORKIN, Leonid Nikolaevich SOLODILOV

1210 JSA07/10A/A05-010

3-D LITHOSPHERE DENSITY MODEL FOR NORTHEASTERN RUSSIA AND ITS GEOLOGIC, PETROLOGIC AND DYNAMIC-KINEMATIC INTERPRETATIONS (GRAVITY AND OTHER GEOPHYSICAL METHODS)
Yury Ya. VASHCHILLOV, Olga V. SAKHNO, Viktor V. LYUBOMUDROV, Larissa I. GUTOROVA

WEEK
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JSA09 **Thursday, July 10 AM**

CHALLENGES OF GLOBAL CHANGE IN FORCING FROM BELOW AND ABOVE (IAGA, IAMAS)

Location: Site A, Room 8

Convener: G. Beig
Co-Convener: J. Lastovicka
Presiding Chair: J. Lastovicka

0830 JSA09/10A/A08-001 Invited
NONLINEARITIES, THRESHOLDS AND SURPRISES: WILL THE FUTURE SURPRISE US?
Michael C. MACCRACKEN

0900 JSA09/10A/A08-002 Invited
LONG-TERM VARIATIONS OF THE MIDDLE ATMOSPHERE SEMI ANNUAL OSCILLATION (SAO)
Dirk OFFERMANN, Matthias DONNER, Peter KNIELING, Annette MENZEL, Barbara NAUJOKAT

0930 JSA09/10A/A08-003
THE EARTHSHINE PROJECT: MEASURING THE EARTH'S ALBEDO. LATEST RESULTS
Enric PALLE, Pilar MONTANES RODRIGUEZ, Phillip R. GOODE, Steve E. KOONIN, Jiong QIU, Jeff HICKEY

0945 JSA09/10A/A08-004
VARIABILITY IN SOME NEGLECTED ATMOSPHERIC PARAMETERS
Gufran BEIG

1000 BREAK

1030 JSA09/10A/A08-005 Invited
STRATOSPHERIC AND TROPOSPHERIC FORCING OF THE ARCTIC OSCILLATION BY THE 1991 MT. PINATUBO ERUPTION
Georgiy L. STENCHIKOV, Alan ROBOCK, Kevin HAMILTON, V. RAMASWAMY, M. Daniel SCHWARZKOPF

1100 JSA09/10A/A08-006
THE GLOBAL CHANGES OF WATER LEVELS IN SOME EARTH SYSTEMS
Nikolay V. SOKOLOV

1115 JSA09/10A/A08-007
HORIZONTAL T-S MIXING AND FRONTOGENESIS IN THE WESTERN PACIFIC WARM POOL AREA
Alexander V. SOLOVIEV, Roger LUKAS

1130 JSA09/10A/A08-008
A PRELIMINARY STUDY OF THE SOFIA FREE TROPOSPHERE/LOW STRATOSPHERE PARAMETERS IN AN ASSOCIATION WITH GLOBAL CHANGES
Staytcho KOLEV

1145 JSA09/10A/A08-009
ATMOSPHERIC ELECTRICITY MEASUREMENTS AT MAITRI, ANTARCTICA DURING ANTARCTIC SUMMER
Panneerselvam CHITHIRAIVEL, S. GURUBARAN, K. JEEVA, B.N. RAINA, R. RAJARAM, A.K. KAMRA, C.G. DESHPANDE

1200 JSA09/10A/A08-010
SOLAR AND VOLCANIC EFFECTS ON THE EARTH CLIMATE OVER THE LAST 300 YEARS
Elena A. KASATKINA, Oleg I. SHUMILOV, Oleg M. RASPOPOV, Nils A. MORNER

1215 JSA09/10A/A08-011
IMPACTS OF THE 11-YR SOLAR MODULATION OF THE SEASONAL CYCLE ON THE GENERIC QBO IN CLIMATE SYSTEM
Hengyi WENG

JWH01 **Thursday, July 10 AM**

SNOW PROCESSES: REPRESENTATION IN ATMOSPHERIC AND HYDROLOGICAL MODELS (IAHS/ICSI, IAMAS)

Location: Site C, Room 30

Presiding Chair: L. Kuchment

0830 JWH01/10A/C30-001
TESTING THE IMPACT OF PARAMETERIZATIONS IN INTERNAL SNOW PHYSICS AND INTERFACE PROCESSES ON THE SIMULATION OF SNOW COVER AND RUNOFF AT VEGETATED AREAS
Yongkang XUE, Shufen SUN, Daniel S. KAHAN, Yanjun JIAO

0850 JWH01/10A/C30-002
PARAMETERIZATION OF SNOW PROCESSES WITHIN BOREAL ECOSYSTEMS
Yeugeniy M. GUSEV, Olga N. NASONOVA

0910 JWH01/10A/C30-003
A STUDY ON HYDRO-METEOROLOGICAL EFFECT OF INTERCEPTED SNOW USING A ONE-DIMENSIONAL LAND SURFACE MODEL
Takeshi YAMAZAKI, Hironori YABUKI, Reiko OKUBO, Tetsuo OHATA

0930 JWH01/10A/C30-004
DEGREE-HOUR MODEL OF MOUNTAIN SNOW WATER EQUIVALENT AND EVALUATION USING SNOW LYSIMETERS BENEATH THE FOREST CANOPY
Andrew C. WHITAKER, Hironobu SUGIYAMA

0950 JWH01/10A/C30-005
SNOW PROCESSES IN THE SOUTHERN MOUNTAINOUS TAIGA OF EASTERN SIBERIA. I. SNOW ABLATION PROCESS UNDER A LARCH FOREST CANOPY
Kazuyoshi SUZUKI, Jumpei KUBOTA, Yinsheng ZHANG, Tsutomu KADOTA, Tetsuo OHATA, Varelly VUGLINSKY

1010 BREAK

Presiding Chair: R. Essery

1040 JWH01/10A/C30-006
DYNAMIC CHARACTERISTICS OF SNOW COVER IN THE LENA RIVER BASIN, SIBERIA
Tetsuo OHATA

1100 JWH01/10A/C30-007
THE REPRESENTATION OF SNOW IN THE UPPER DANUBE CATCHMENT AREA - A MODELLING APPROACH
Heidi ESCHER-VETTER, Michael KUHN, Wolfram MAUSER, Stefan NIEMEYER

1120 JWH01/10A/C30-008
ANALYZING THE EFFECT OF SNOW STORAGE ON BASIN-WIDE RUNOFF
Makoto NAKATSUGAWA, Kiyoshi HOSHI

1140 JWH01/10A/C30-009
SNOW COVERED AREA AND VEGETATION DATA CONSIDERATIONS IN MODELING SNOWMELT STREAMFLOW FOR TWO SOUTHWESTERN US HEADWATER BASINS
Kevin Andrew DRESSLER, Steven Richard FASSNACHT, Roger C. BALES

1200 JWH01/10A/C30-010
ESTIMATION OF SNOW WATER EQUIVALENT IN THE MOUNTAINOUS REGION OF JAPAN
Hiroshi ISHIDAIRA, Kuniyoshi TAKEUCHI, Zongxue XU, Naoki YAMAMOTO, Tomomi ISHIHARA

JSM11 **Thursday, July 10 AM**

GLOBAL SEA LEVEL RISE, GLOBAL CLIMATE CHANGE AND POLAR ICE SHEET STABILITY (IAMAS [ICDM, ICCL, ICPM], IAPSO, IAG, IAHS)

Location: Site B, Room 18

Conveners: A. Cazenave, R. Peltier
Co-Conveners: P. Woodworth, R. Bindaschadler
Presiding Chair: R. Peltier

0900 JSM11/10A/B18-001
ANTARCTIC ICE-SHEET MASS BALANCE FROM SATELLITE ALTIMETRY 1992 TO 2001
H. Jay ZWALLY, Anita C. BRENNER, Helen CORNEJO, Mario GIOVINETTO, Jack L. SABA, Donghui YI

0920 JSM11/10A/B18-002
GREENLAND CLIMATE CHARACTERISTICS IN HADCM3
Jeff RIDLEY, Philippe HUYBRECHTS, Jonathan GREGORY, Jason LOWE

0940 JSM11/10A/B18-003
COMBINING TIME VARIABLE GRAVITY AND OTHER GEODETIC MEASUREMENTS TO UNDERSTAND THE POLAR ICE SHEETS
Isabella VELICOGNA, John WAHR

1000 JSM11/10A/B18-004
RECENT THICKENING OF GLACIAL PERITO MORENO, SOUTHERN PATAGONIA
Renji NARUSE, Pedro SKVARCA

1020 JSM11/10A/B18-005
RANDOM FLUCTUATIONS OF THE ICE SHEETS BOUNDARY CONDITIONS AND THEIR RELATION WITH SEA LEVEL
Frederique REMY, Benoit LEGRESY

1040 JSM11/10A/B18-006
SYOWA STATION, ANTARCTICA, FOR GLOBAL GEODYNAMICS NETWORK STATION (A REVIEW REVISITED)
Kazuo SHIBUYA, Koichiro DOI, Shigeru AOKI

JSP04		Thursday, July 10 AM	
ARCTIC ENVIRONMENT CHANGE (IAPSO, IAMAS, IAHS)			
Location: Site A, Room 6			
Presiding Chair: S. Minobe			
0900	JSP04/10A/A06-001		
SIMULATED ARCTIC FRESH WATER EXPORT VARIABILITY 1900-2000			
Cornelia KOEBERLE			
0920	JSP04/10A/A06-002		
RECENT AND HISTORICAL CHANGE OF SEA ICE EXTENT IN THE ARCTIC			
Roger L. COLONY			
0940	JSP04/10A/A06-003		
THE BERING STRAIT'S GRIP ON THE WORLD CLIMATE			
Agatha M. DE BOER, Doron NOF			
1000	BREAK		
1030	JSP04/10A/A06-004		
SENSITIVITY OF THE ARCTIC HIGH TO SEA ICE DYNAMICS IN A PALAEOCLIMATE MODEL			
Jennifer K. HUTCHINGS, Steve VAVRUS, William HIBLER III			

JSP09		Thursday, July 10 AM	
PHYSICAL ASPECTS OF AIR-SEA INTERACTION (IAPSO, IAMAS)			
Location: Site B, Room 20			
Convener: S.A. Josey			
Co-Conveners: N. Ebuchi, N.K. Shay			
Presiding Chairs: C. Fairall, S. Josey			
0900	JSP09/10A/B20-001	Invited	
MEASUREMENT AND PARAMETERIZATION OF AIR-SEA FLUXES: RECENT DEVELOPMENTS IN BULK FLUX ALGORITHMS			
Chris W. FAIRALL			
0930	JSP09/10A/B20-002		
REAL-TIME ON-BOARD AIR-SEA FLUX MEASUREMENT SYSTEM WITH EDDY COVARIANCE METHOD			
Osamu TSUKAMOTO, Satoshi TAKAHASHI, Ken'ichi OKADA, Hiroshi ISHIDA			
0945	JSP09/10A/B20-003		
CONSTRAINING THE INERTIAL DISSIPATION METHOD USING THE VERTICAL VELOCITY VARIANCE			
Genevieve M. DARDIER, Alain WEILL, Helene DUPUIS, Christine GUERIN, William M. DRENNAN, Sidonie BRACHET, Fabienne LOHOU, Rodrigo PEDREROS			
1000	JSP09/10A/B20-004		
SEA STATE AND SURFACE CURRENT MEASUREMENTS WITH X-BAND MARINE RADAR ABOARD THE EXPLORER OF THE SEAS			
Hans C. GRABER, Katrin HESSNER			
1015	JSP09/10A/B20-005		
INFRARED INTERFEROMETRIC MEASUREMENTS OF THE AIR-SEA TEMPERATURE DIFFERENCE			
Peter J. MINNETT, Kevin A. MAILLET, Brian J. OSBORNE			
1030	BREAK		
1045	JSP09/10A/B20-006	Invited	
SHIP-BASED MEASUREMENTS OF AIR-SEA FLUXES			
Sergey K. GULEV			
1115	JSP09/10A/B20-007		
AIR-SEA HEAT AND FRESHWATER FLUXES: A NEW APPROACH FOR VALIDATION AND ESTIMATION BASED ON THE TIME-DEPENDENT ENERGY AND BUOYANCY BUDGETS OF NATURAL VOLUMES			
Huai-Min ZHANG, John M. TOOLE, Michael J. CARUSO			
1130	JSP09/10A/B20-008		
BALANCING THE HEAT BUDGET OF THE SOC AIR-SEA FLUX CLIMATOLOGY THROUGH AN INVERSE ANALYSIS WITH OCEAN HEAT TRANSPORT CONSTRAINTS			
Simon A. JOSEY, Jeremy P. GRIST			
1145	JSP09/10A/B20-009		
DIURNAL VARIATIONS OVER TROPICAL OCEANS AND THEIR IMPLICATIONS FOR AIR-SEA INTERACTIONS			
Aiguó DAI, Kevin E. TRENBERTH			
1200	JSP09/10A/B20-010		
AN ASSESSMENT OF THE SURFACE TURBULENT HEAT FLUXES FROM THE NCEP REANALYSIS OVER THE WESTERN BOUNDARY CURRENTS			
Kent MOORE, Ian RENFREW			

1215	JSP09/10A/B20-011		
FRESH WATER FLUXES AND SEA SURFACE SALINITY S.Daniel JACOB, Chester J. KOBLINSKY			
JSP10		Thursday, July 10 AM	
ROTATING AND STRATIFIED FLUIDS (IAPSO, IAGA, IAMAS, SEDI)			
Location: Site B, Room 21			
0830	JSP10/10A/B21-001		
ON ESTIMATING THE DIAPYCNAL DIFFUSIVITY IN THE PRESENCE OF DENSITY STRATIFICATION Gregory N. IVEY			
0900	JSP10/10A/B21-002		
NUMERICAL EXPERIMENTS OF CONVECTION UNDER POLYNIA Naosuke OKADA, Motoyoshi IKEDA, Shoshiro MINOBE			
0920	JSP10/10A/B21-003		
EFFECTS OF UNSTEADINESS, INITIAL CONDITIONS AND MOELCULAR DIFFUSION ON THE SCALAR FLUXES IN STRATIFIED TURBULENCE Hideshi HANAZAKI			
0950	JSP10/10A/B21-004		
INTERNAL STRUCTURE OF PERIODIC BOUNDARY LAYERS IN A VISCOUS STRATIFIED FLUID WITH DIFFUSION Anatolii V. KISTOVICH, Yuli D. CHASHECHKIN, Marina A. DAVYDOVA			
1010	BREAK		
1030	JSP10/10A/B21-005		
TWO-DIMENSIONAL TURBULENCE ON A BOUNDED DOMAIN GertJan F. VAN HEIJST, Herman J.H. CLERCX			
1100	JSP10/10A/B21-006		
WHY DOES A TURBULENT CHANNEL FLOW TEND TO HAVE A SHEAR ZONE OF ZERO ABSOLUTE VORTICITY IN A ROTATING SYSTEM? Akira MASUDA, Yutaka YOSHIKAWA			
1120	JSP10/10A/B21-007		
INTERACTION OF DECAYING 2D TURBULENCE WITH RIGID BOUNDARIES: LABORATORY EXPERIMENTS Yakov D. AFANASYEV, Jennifer WELLS			
1140	JSP10/10A/B21-008		
SELF-SIMILARITY OF VORTICITY DYNAMICS IN DECAYING CHM TURBULENCE Takahiro IWAYAMA, Theodore G. SHEPHERD, Takeshi WATANABE			
1200	JSP10/10A/B21-009		
STRONG TURBULENCE OF INTERNAL NONLINEAR KELVIN WAVES Vadim V. NOVOTRAYSOV			
JSS06		Thursday, July 10 AM	
EARTH STRUCTURE AND GEODYNAMICS (IASPEI, IAVCEI, IAG, IAGA)			
Location: Site A, Room 4			
Presiding Chair: D. Sandwell			
0830	JSS06/10A/A04-001		
ENHANCEMENT OF DECOMPRESSION MELTING IN THE PRESENCE OF CONTINENTAL ROOT IN PLUME- LITHOSPHERE INTERACTION MODELS A. MANGLIK, U.R. CHRISTENSEN			
0850	JSS06/10A/A04-002		
GLOBAL DEVIATORIC STRESS IN THE LITHOSPHERE FROM GEOID HEIGHT, TOPOGRAPHY, AND STYLE OF FAULTING David T. SANDWELL, Bridget SMITH			
0910	JSS06/10A/A04-003		
THE ROLE OF DEEP LITHOSPHERICSTRUCTURES IN THE GENESIS OF LARGE AND SUPERLARGE ORE DEPOSITS IN UZBEKISTAN I. Kh. KHAMRABAEV, I.P. SIDOROVA, A.A. KUSTARNIKOVA			
0930	JSS06/10A/A04-004		
A PLUME BENEATH THE NORTHEASTERN AFRO-ARABIAN CONTINENT? Michel J. CARA, Eric DEBAYLE, Georges HERQUEL, Jean Jacques LEVEQUE, Anne SIEMINSKI, Deborah SICILIA, Jean Paul MONTAGNER, Atalay AYELE, Jamal M. SHALAN			
0950	JSS06/10A/A04-005		
3-D RHEOLOGICAL STRUCTURE OF THE LITHOSPHERE FOR THE ORDOS BLOCK AND ITS ADJACENT AREA Shao Xian ZANG, Rong Qiang WEI, Yong Gang LIU			

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1010 JSS06/10A/A04-006
THE VRANCEA NATURAL LABORATORY OF GEODYNAMICS
Dorel ZUGRAVESCU, Vladimir Nicolaevich STRAKHOV, Alexander Olegovich GLIKO, Constantin Stefan SAVA, Vladimir Georgievich BOUDANOV

1030 BREAK

1050 JSS06/10A/A04-007
LITHOSPHERIC THERMAL AND MECHANICAL STRUCTURE OF EASTERN TIBETAN PLATEAU WITH TECTONIC IMPLICATION
Yong ZHENG, Xiong XIONG, Rongshan FU

1110 JSS06/10A/A04-008
PN TOMOGRAPHIC IMAGING OF MANTLE LID VELOCITY AND ANISOTROPY AT THE JUNCTION OF THE ARABIAN, EURASIAN, AND AFRICAN PLATES
Ali I. AL-LAZKI, Eric SANDVOL, Dogan SEBER, Muawia BARAZANGI, Niyazi TURKELLI, Randa MOHAMAD

1130 JSS06/10A/A04-009
SIGNIFICANCE OF MANTLE DYNAMICS IN INTERACTION BETWEEN THE SUBMARINE INTERFACES
Xianglong JIN, Gao JINYAO

1150 JSS06/10A/A04-010
MUTUAL INTERACTION BETWEEN MAGMATISM AND GEODYNAMICS IN THE CARPATHIAN-PANNONIAN REGION, EASTERN EUROPE
Ioan SEGHEDI, Hilary DOWNES, Alexandru SZAKÁCS, Zoltán PÉCSKAY

1210 JSS06/10A/A04-011
SEISMIC ANISOTROPY AND PLATE-MANTLE INTERACTION
Götz BOKELMANN

JSS07 Thursday, July 10 AM

TSUNAMIS: THEIR SCIENCE, ENGINEERING AND HAZARD MITIGATION (IASPEI, IAVCEI, IAPSO)

Location: Site A, Room 2

Presiding Chairs: E. Pelinovsky, K. Satake

0830 JSS07/10A/A02-001
TSUNAMI DEPOSITS AND THEIR SEDIMENTARY PROCESS OF THE 1993 HOKKAIDO-NANSEI-OKI EARTHQUAKE AND 1741 OSHIMA-OSHIMA ERUPTION, SOUTHWESTERN HOKKAIDO
Futoshi NANAYAMA, Kenji SATAKE, Koichi SHIMOKAWA, Kiyoyuki SHIGENO

0845 JSS07/10A/A02-002
TRACES OF TSUNAMIS OF MAJOR NANKAI EARTHQUAKES IN THE BOTTOM SEDIMENTARY LAYERS OF TADASUGA-IKE AND KIRIMA-IKE LAGOONS, SUSAKI CITY, KOCHI PREFECTURE, SHIKOKU ISLAND
Yoshinobu TSUJI, Makoto OKAMURA, Yumi MATSUOKA, Yuichi NAMEGAYA

0900 JSS07/10A/A02-003
PALEOTSUNAMI DEPOSITS INVESTIGATIONS ON THE KUNASHIR ISLAND
Alexander Ya. ILYEV, Nadezhda G. RAZJIGAEVA, Victor M. KAISTRENKO, Elena V. GRETSKAYA, Larisa A. GANZEY, Elena A. TIKHONCHUK, Andrey A. KHARLAMOV

0915 JSS07/10A/A02-004
ESTIMATES OF TSUNAMI RUN-UP HEIGHTS FROM TSUNAMI DATA FOR THE COAST OF PERU
Evgueni A. KULIKOV, Alexander B. RABINOVICH

0930 JSS07/10A/A02-005
THE COMPARISON BETWEEN THE 1936 AND 1978 MIYAGI-OKI EARTHQUAKES
Yuichiro TANIOKA

0945 JSS07/10A/A02-006
THE LATER PHASE OF THE TSUNAMI OF THE NEMURO-HANTO-OKI EARTHQUAKE OF JULY 17, 1973
Yuichi NAMEGAYA, Yoshinobu TSUJI

1000 JSS07/10A/A02-007
SOURCE AREA AND RUPTURE PARAMETERS OF THE 31 DEC. 1881 MW=7.9 CAR NICOBAR EARTHQUAKE ESTIMATED FROM TSUNAMIS RECORDED IN THE BAY OF BENGAL
Modesto ORTIZ, Roger BILHAM

1015 JSS07/10A/A02-008
TSUNAMI RESONANCE CURVE OF BAYS BASED ON THE OBSERVED NATURAL PERIODS
Kuniaki ABE

1030 JSS07/10A/A02-009
STUDY ON THE EFFECT OF TSUNAMI REDUCING BY COASTAL CONTROL FOREST
Kenji HARADA, Fumihiko IMAMURA

1045 BREAK

1100 JSS07/10A/A02-010
NUMERICAL SIMULATIONS OF THE 2002 STROMBOLI ISLAND TSUNAMI, ITALY
Stefano TINTI, Alberto ARMIGLIATO, Gianluca PAGNONI, Filippo ZANIBONI

1115 JSS07/10A/A02-011
DEVELOPMENT OF A TSUNAMI CATALOGUE FOR THE PACIFIC COAST OF CANADA
Fred E. STEPHENSON, Olga N. SOLOVIEVA, Sydney O. WIGEN, Boris W. LEVIN, Alexander B. RABINOVICH, Evgueni A. KULIKOV, Olga I. YAKOVENKO

1130 JSS07/10A/A02-012
TSUNAMIS AND METEOROLOGICAL TSUNAMIS NEAR THE KURIL ISLANDS: INFLUENCE OF SOURCE AND TOPOGRAPHY
Alexander B. RABINOVICH

1145 JSS07/10A/A02-013
POST-DISASTER TECHNICAL CLEARINGHOUSES: AN OPERATIONAL MODEL FOR TSUNAMIS AND EARTHQUAKES IN HAWAII
Laura S. L. KONG, Brian YANAGI, Stan GOOSBY, Ray ISAWA

1200 JSS07/10A/A02-014
THE PUERTO RICO TSUNAMI WARNING AND MITIGATION PROGRAM AND RELATED TSUNAMI RESEARCH IN THE CARIBBEAN
Aurelio MERCADO, Ms. Christa VON HILLEBRANDT, Victor HUERFANO, Harry JUSTINIANO

1215 JSS07/10A/A02-015
REDUCING TSUNAMI CASUALTIES: MITIGATION LESSONS FROM RECENT TSUNAMIS
Lori A. DENGLER



G07 Thursday, July 10 AM

GLOBAL GEODETIC OBSERVING SYSTEM. IAG SYMPOSIUM

Location: Site A, Room 3

Convener: G. Beutler

Presiding Chairs: G. Beutler, S. Zerbini, R. Rummel, M. Rothacher

0900 G07/10A/A03-001
IGGOS SCIENCE RATIONALE
Reiner RUMMEL, Gerhard BEUTLER

0920 G07/10A/A03-002
TERRESTRIAL REFERENCE FRAME REQUIREMENTS WITHIN THE IGGOS PERSPECTIVE
Claude BOUCHER, Zuheir ALTAMIMI

0940 G07/10A/A03-003
THE IGGOS VIEWED FROM THE SPACE GEODETIC SERVICES
John M. DOW, Werner GURTNER, Wolfgang SCHLUETER

1000 G07/10A/A03-004
THE IERS - A SERVICE FOR A GLOBAL EARTH OBSERVING SYSTEM
Bernd RICHTER, Markus ROTHACHER, Jan VONDRAK

1020 BREAK

1100 G07/10A/A03-005
THE GRAVITY FIELD AND IGGOS
Rene FORSBERG, M.G. SIDERIS, C.K. SHUM

1120 G07/10A/A03-006
ALTIMETRY AS A NEW SERVICE IN IGGOS
Wolfgang BOSCH, C.K. SHUM

1140 G07/10A/A03-007
GEOPHYSICAL NUTATION AND POLAR MOTION MODELS AS CONTRIBUTION TO IGGOS
Véronique DEHANT

1200 G07/10A/A03-008
A UNIFIED GLOBAL HEIGHT REFERENCE SYSTEM AS A BASIS FOR IGGOS
Johannes IHDE, Hermann DREWES, Laura SANCHEZ

GAIL.06 Thursday, July 10 AM

IONOSPHERIC IRREGULARITIES, FIELDS AND WAVES
Location: Site A, Room 1

Presiding Chair: T. Nakamura

HIGH LATITUDE AND METEORS

0830 GAIL.06/10A/A01-001
MILLSTONE HILL OBSERVATIONS OF COHERENT RADAR BACKSCATTER FROM THE SUB-AURORAL POLARIZATION STREAM
John C. FOSTER, Phillip J. ERICKSON, Frank D. LIND

0850 GAIL.06/10A/A01-002
ON THE THERMOELECTRIC ORIGIN OF ELECTRIC FIELD IN THE POLARIZATION JET
Victor L. KHALIPOV, A.E. STEPANOV

0905 GAIL.06/10A/A01-003
IONOSPHERIC PLASMA STRUCTURING IN THE CUSP AND THE POLAR CAP REGION DURING ENHANCED PLASMA CONVECTION
Santimay BASU, Sunanda BASU, C.E. VALLADARES, R.E. SHEEHAN

0920 GAIL.06/10A/A01-004
A YEAR IN REVIEW: HIGH LATITUDE IONOSPHERIC IRREGULARITY OBSERVATIONSWITH PASSIVE VHF RADAR
Melissa G. MEYER, John D. SAHR, Dawn M. GIDNER, Chucai ZHOU

0940 GAIL.06/10A/A01-005
WESTWARD TRAVELING SURGES IN CRNA AND OPTICAL AURORA
Pieter H. STOKER, Albertus WILSON

0955 GAIL.06/10A/A01-006
INVESTIGATIONS OF PMSE: A SURVEY OF RECENT EMPIRICAL RESULTS
Phillip B. CHILSON, Jürgen RÖTTGER

1015 BREAK

1030 GAIL.06/10A/A01-007
MASS ESTIMATION OF FAINT METEORS FROM RADAR HEAD ECHOES COMBINED WITH OPTICAL OBSERVATIONS
Toru SATO, Takuji NAKAMURA, Shuichi TSUTSUMI, Masumi NISHIO

1050 GAIL.06/10A/A01-008
METEOR ECHO STUDIES USING THE NOAA HF RADAR
Lung-Chih TSAI, Frank Tom BERKEY, T.-T. HSIAO

1105 GAIL.06/10A/A01-009
PLASMA SIMULATIONS, RADAR OBSERVATIONS AND THEORY OF A NEW TYPE OFMETEOR ECHO: THE NON-SPECULAR TRAIL
Lars P. DYRUD, Meers M. OPPENHEIM, Sigrid CLOSE, Stephen HUNT, Kelly MCMILLON, Licia RAY

1125 GAIL.06/10A/A01-010
IONOSONDE OBSERVATIONS OF THE LEONID METEOR SHOWER IN NOVEMBER 2001
Takashi MARUYAMA, Hisao KATO, Maho NAKAMURA

1145 GAIL.06/10A/A01-011
LOCALIZED IONOSPHERIC PC 3-4 WAVES OBSERVED BY THE ICELAND EAST HF RADAR.
Yuichi SHINKAI, Natsuo SATO, Yukimatu Sessai AKIRA, Toshihumi MUKAI, Tohru SAKURAI, Yutaka TONEGAWA, Mark LESTER, Stephen Eric MILAN, Jean-Paul VILLAIN, George SOFKO, Brian James FRASER

1200 GAIL.06/10A/A01-012
OBSERVATION OF SHOCK INDUCED PI-1 PULASATIONS IN TOPSIDE IONOSPHERIC PLASMA AT 600 KM ALTITUDE ON APRIL 17, 2002 STORM DAY
Su SHIN-YI, Chi-Kwan CHAO, Huey-Chin YE

1215 GAIL.06/10A/A01-013
WAVE STRUCTURES OBSERVED IN THE IONOSPHERIC F-REGION DURING LOW AND HIGH GEOMAGNETIC ACTIVITY
Petra SAULI, Patrice ABRY, Josef BOSKA

GAIIL.08 Thursday, July 10 AM

WHAT IS THE LIFE-HISTORY OF PARTICLES IN THE MAGNETOSPHERIC REGIONS?
Location: Site A, Room 16

Convener: T. Moore
Co-Conveners: S. Fuselier, C. Perry
Presiding Chairs: C.H. Perry, R. Winglee

0830 GAIIL.08/10A/A16-001
ON THE CONTRIBUTION OF IONOSPHERIC IONS TO THE EARTH'S MAGNETOSPHERE: INSIGHT FROM GEOTAIL OBSERVATIONS
Kanakō SEKI, Masafumi HIRAHARA, Masahiro HOSHINO, Toshio TERASAWA, Toshifumi MUKAI, Richard C. ELPHIC

0850 GAIIL.08/10A/A16-002
THE STRUCTURE OF THE PLASMA SHEET UNDER NORTHWARD IMF
Masaki FUJIMOTO

0910 GAIIL.08/10A/A16-003
FIELD-ALIGNED ACCELERATION OF O⁺ IONS BY THE PONDEROMOTIVE FORCE. CASE STUDY: APRIL 12, 2001
Sachiko JOKO, Hans NILSSON, Rickard LUNDIN, Ingrid SANDAHL

0925 GAIIL.08/10A/A16-004
AURORAL ION OUTFLOWS AND CIRCULATION THROUGH THE MAGNETOSPHERE
James P. MCFADDEN

0945 GAIIL.08/10A/A16-005
SPATIAL AND TEMPORAL TEXTURE OF BURSTY BULK FLOWS AND THEIR ROLE IN PLASMASHEET TRANSPORT
Harlan E. SPENCE, Larry KEPKO, Shannon MCCURDY

1005 GAIIL.08/10A/A16-006
TRANSPORT AND ACCELERATION OF IONS DURING STORM-TIME SUBSTORMS
Ioannis A. DAGLIS, Fiori-Anastasia METALLINO, Dominique DELCOURT, John H. SEIRADAKIS

1020 BREAK

1040 GAIIL.08/10A/A16-007
FATE OF THE PLASMA SHEET IONS
Yusuke EBIHARA, Masaki EJIRI, Ingrid SANDAHL, Lars ELIASSON, Hans NILSSON, Manuel GRANDE, Joseph F. FENNELL, James L. ROEDER, Lynn M. KISTLER

1100 GAIIL.08/10A/A16-008
STORM-TIME NITROGEN IONOSPHERIC ION INJECTION INTO THE MAGNETOSPHERE
Andrew W. YAU, Takumi ABE

1115 GAIIL.08/10A/A16-009
SOLAR WIND DRIVING OF RING CURRENT RECOVERY: DAYSIDE OUTFLOWS AND PLASMA SHEET DROP OUTS
Janet U. KOZYRA, Michael W. LIEMOHN, Michelle F. THOMSEN, Joseph E. BOROVSKY, Thomas H. ZURBUCHEN, Ruth SKOUG

1135 GAIIL.08/10A/A16-010
LOGNORMAL FORM OF THE RING CURRENT ENERGY CONTENT
Michael W. LIEMOHN, Janet U. KOZYRA

1150 GAIIL.08/10A/A16-011
THE LIFE HISTORY OF A 'KILLER': THE ORIGIN AND FATE OF RELATIVISTIC ELECTRONS
Geoffrey D. REEVES

1210 GAIIL.08/10A/A16-012
OUTER PLASMASPHERIC CIRCULATION
Mark B. MOLDWIN, D. BERUBE, M. THOMSEN, B. SANDEL

GAV.06 Thursday, July 10 AM

MODERN MAGNETIC SURVEYS FOR REGIONAL TECTONICS, GEOHAZARDS AND ENVIRONMENTAL INVESTIGATIONS
Location: Site A, Room 11

Presiding Chair: S. Okuma

0830 GAV.06/10A/A11-001
HIGH-RESOLUTION AEROMAGNETIC DATAFACILITATE MAPPING AND CHARACTERIZATIONOF CASCADIA EARTHQUAKE HAZARDS
Richard J. BLAKELY, Ray E. WELLS

0850 GAV.06/10A/A11-002
AEROGEOPHYSICAL SURVEY OVER IWATE VOLCANO, NORTHEAST JAPAN
Shigeo OKUMA, Tadashi NAKATSUKA, Rie MORIJIRI, Shinichi TAKAKURA

0910 GAV.06/10A/A11-003
HELICOPTER BORNE EM STUDIES OVER THE MOUNT USU REGION, JAPAN
John Joseph E., Shigeo OKUMA, Tadashi NAKATSUKA

0930 GAV.06/10A/A11-004
HIGH RESOLUTION AIRBORNE MAGNETIC SURVEYS TO INVESTIGATE THE STRUCTURE AND SYSTEM CHANGES IN ACTIVE VOLCANIC REGIONS OF SOUTHERN ITALY
Robert SUPPER, Shigeo OKUMA, Massimo CHIAPPINI, Riccardo DERITIS, Iacopo NICOLOSI, Christian STOTTER, Ingrid SCHATTAUER

0950	GAV.06/10A/A11-005
AIRBORNE MAGNETIC ANOMALY IMAGES OVER STROMBOLI (AEOLIAN ISLANDS, ITALY)	
Massimo CHIAPPINI, Iacopo NICOLOSI, Riccardo DE RITIS, Shigeo OKUMA, Robert SUPPER	
1010	GAV.06/10A/A11-006
ANALYSIS AND INTERPRETATION OF AEROMAGNETIC DATA OF RUNGWE VOLCANIC PROVINCE, SOUTHWEST TANZANIA	
Isaac Muneji MAROBHE	
1030	BREAK
1050	GAV.06/10A/A11-007
MAGNETIC ANOMALY ANALYSIS USING 3D SPACING GEOMAGNETIC VECTOR FIELDS	
Nobuhiro ISEZAKI	
1110	GAV.06/10A/A11-008
THE THREE-DIMENSIONAL MAGNETIZATION VECTOR INVERSION	
Ryuji KUBOTA, Akinori UCHIYAMA	
1130	GAV.06/10A/A11-009
DETERMINATION OF THE PARAMETERS OF COMPACT FERRO-METALLIC OBJECTS WITH TRANSFORMS OF MAGNITUDE MAGNETIC ANOMALIES	
Daniela Ivanova GEROVSKA, Marcos ARAUZO-BRAVO, Petar STAVREV	
1150	GAV.06/10A/A11-010
A METHOD OF DELINEATING DEEP PENETRATIVE FRACTURES IN THICK SEDIMENTARY ROCK SEQUENCES	
Mark E. GETTINGS	
1210	GAV.06/10A/A11-011
UTILITY OF COMPREHENSIVE MAGNETIC FIELD MODEL IN STUDYING THE EARTH'S LITHOSPHERE	
Dhananjay RAVAT, Thomas G. HILDENBRAND	



HS02	Thursday, July 10 AM
WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)	
Location: Site C, Room 24	

Presiding Chair: C. Goldman

0830	HS02/10A/C24-001
ADJUSTIBILITY AND FLEXIBILITY OF RESERVOIR SYSTEMS TO CHANGES IN DEMAND AND SUPPLY CONDITIONS	
Carsten BRASS, Andreas H. SCHUMANN	
0845	HS02/10A/C24-002
WATER ALLOCATION FOR MULTIPLE USES BASED ON PROBABILISTIC RESERVOIR INFLOW FORECASTS	
Ashish SHARMA, Upmanu LALL, Sankar ARUMUGAM	
0900	HS02/10A/C24-003
IMPROVED HEURISTIC RESERVOIR OPERATION USING CONTROL CURVES INCORPORATING THE VULNERABILITY NORM	
Adebayo Johnson ADELOYE	
0915	HS02/10A/C24-004
OPTIMAL SHORT TERM OPERATION OF MULTIPURPOSE RESERVOIRS SYSTEM UNDER LIMITED WATER SUPPLY	
Giuseppe GIULIANO, Antonino CANCELLIERE, Giuseppe ROSSI	
0930	HS02/10A/C24-005
SIMULATING THE DISCHARGE OF CHAO PHRAYA RIVER CONSIDERING RESERVOIR OPERATION	
Naota HANASAKI, Taikan OKI, Shinjiro KANAE, Katumi MUSIAKE	
0945	HS02/10A/C24-006
EVALUATION OF ALTERNATE OBJECTIVE FUNCTIONS FOR OPTIMAL OPERATION OF AN IRRIGATION RESERVOIR UNDER MULTI-CROP ENVIRONMENT	
Umamahesh Venkata NANDURI	
1000	DISCUSSION
1015	BREAK

HS02-Oral-Posters	Thursday, July 10 AM
WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)	
Location: Site C, Room 24	

Presiding Chair: C. Goldman

1045	HS02/10A/C24-001OP	Oral-Poster
A TREE MODEL FOR RAINFALL PREDICTION		
A.W. JAYAWARDENA, Xu PENCHANG		
1049	HS02/10A/C24-002OP	Oral-Poster
CHARACTERISTICS OF INTERCEPTION LOSS AND FORMULATION OF AN APPROPRIATE MODEL FOR THREE REGIONS WITH DIFFERENT CLIMATE AND FOREST CONDITION		
Tae TOBA, Tekeshi OHTA, Nobuaki TANAKA		
1053	HS02/10A/C24-003OP	Oral-Poster
CHANGES IN THE HYDROLOGICAL CYCLE AND ITS EFFECTS ON THE ENVIRONMENT IN AN INLAND RIVER BASIN OF WETSREN CHINA		
Jumpei KUBOTA, Tomohiro AKIYAMA, Yusuke YAMAZAKI		
1057	HS02/10A/C24-004OP	Oral-Poster
SUB-SURFACE WATER CONTRIBUTION TO SURFACE WATER USING STOCHASTIC DIFFERENTIAL EQUATION		
Gouldaria K. NOURBAEVA, So KAZAMA, Masaki SAWAMOTO		
1101	HS02/10A/C24-005OP	Oral-Poster
EVOLUTION OF THE SOIL WATER STORAGE UNDER PRESENT AND CHANGED ATMOSPHERIC CONDITIONS		
Urszula SOMOROWSKA		
1105	HS02/10A/C24-006OP	Oral-Poster
CLIMATE, WATER AND ENERGY IN THE NORDIC COUNTRIES		
Arni SNORRASON, Jona Finndis JONSDOTTIR		
1109	HS02/10A/C24-007OP	Oral-Poster
RAINFALL VARIABILITY AND ITS IMPACTS ON WATER RESOURCES DEVELOPMENT IN PART OF OGUN-OSUN RIVER BASIN		
Olusegun ADEAGA		
1113	HS02/10A/C24-008OP	Oral-Poster
HEAT FLUX OBSERVATION ACROSS THE AIR/WATER INTERFACE OF A SMALL RIVER		
Mohammed Aslam M.A., Akihiko KONDOH		
1117	HS02/10A/C24-009OP	Oral-Poster
REPRESENTATION OF COMPLEX LOW-FREQUENCY FEATURES IN A DAILY RAINFALL MODEL		
Timothy Ives HARROLD, Ashish SHARMA		
1121	HS02/10A/C24-010OP	Oral-Poster
ASSESSMENT OF THE EFFECTS OF VEGETATION COVER CHANGES ON HYDROLOGIC REGIME		
Mohammad Javad POURAGHNAEI, M. MAHDAVI, B. SAGHAFIAN		
1125	HS02/10A/C24-011OP	Oral-Poster
MODELING THE INFLUENCE OF VARIATION IN ATMOSPHERIC PRECIPITATION ON THE HEAT AND WATER BALANCE COMPONENTS OF DRY AREAS		
Alexey Vladimirovich BABKIN		
1129	HS02/10A/C24-012OP	Oral-Poster
MODELING WATER QUALITY BY USING NEURAL NETWORKS		
Jian-Ping SUEN, Wayland J. EHEART		
1133	HS02/10A/C24-013OP	Oral-Poster
TIME SCALE ANALYSIS FOR INVESTIGATING STATIONARITY OF HYDROLOGIC TIME SERIES		
A. Ramachandra RAO		
1137	HS02/10A/C24-014OP	Oral-Poster
THE RELATION BETWEEN $\delta^{18}O$ IN MONSOONAL PRECIPITATION AND AIR-SEA ACTIVITY, ASTRONOMICAL AND METEOROLOGICAL FACTORS		
Hongxi PANG, Yuanqing HE		
1141	HS02/10A/C24-015OP	Oral-Poster
SCALES OF HYDROLOGICAL CHANGES IN VOLGA RIVER BASIN POSSIBLE AT CLIMATE CHANGES		
Alexander GEORGIADI		
1145	HS02/10A/C24-016OP	Oral-Poster
THE DECREASE OF THE PRECIPITATION IN PERIODS OF THE YEAR AS A SIGN OF CLIMATIC CHANGE: CASES STUDIED IN PORTUGAL		
Maria Manuela PORTELA, Antonio de Carvalho QUINTELA		
1149	HS02/10A/C24-017OP	Oral-Poster
CLIMATE CHANGE, GLACIER MASS BALANCE AND WATER RESOURCES		
David N. COLLINS, Oliver G. MACDONALD		

1153	HS02/10A/C24-0180P	Oral-Poster
THE HIGHEST ALTITUDE ICE CORES IN THE HIMALAYAS RECORD ANTHROPOGENIC POLLUTION Tandong YAO, Keqin DUAN, Shucheng XIE, Wenmian HUO, Lide TIAN		
1157	HS02/10A/C24-0190P	Oral-Poster
ATMOSPHERIC METHANE OVER THE PAST 1000 YEARS FROM A SUB-TROPICAL ICE CORE Baiqing XU, Tandong YAO, Jerome CHAPPELLAZ, Lonie THOMPSON, Ninglian WANG, Lide TIAN		
1201	HS02/10A/C24-0200P	Oral-Poster
ICE TEMPERATURE VARIATION IN PUROUGANRI ICE FIELD ON THE TIBETAN PLATEAU Jianchen PU, Tandong YAO, Ninglian WANG, Keqin DUAN, Lide TIAN		
1205	HS02/10A/C24-0210P	Oral-Poster
THE INFLUENCE OF THE SNOW COVER AND CLIMATE INTERSECTION TO EXTREMELY HYDROLOGICAL SITUATIONS IN THE SNBP MOUNTAIN ZONE (NORTH SLOPE OF CAUCASUS AS AN EXAMPLE) Lev M. KITAEV		
1209	HS02/10A/C24-0220P	Oral-Poster
RISK ASSESSMENT OF FLOOD CONTROL SYSTEM OF THE YANGTZE CENTERED ON THE THREE GORGES PROJECT Shenglian GUO, Xiangrong TIAN, Caijun WANG, Honggang ZHANG, Pan LIU		
1213	HS02/10A/C24-0230P	Oral-Poster
CROSS-CORRELATION ANALYSIS BY KENDALL'S τ BETWEEN CATEGORIZED SOI AND THE NONEXCEEDANCE PROBABILITY OF PRECIPITATION IN KOREA Young-Hoon JIN, Akira KAWAMURA, Kenji JINNO		
1217	DISCUSSION	

HW01	Thursday, July 10 AM
EFFECTS OF HUMAN ACTIVITIES ON HYDROLOGICAL AND BIOGEOCHEMICAL CYCLES (ICWQ)	
Location: Site C, Room 26	

Presiding Chairs: E. Holzbecher, T. Paces

0830	HW01/10A/C26-001
CRITICAL ANTHROPOGENIC LOAD AND TEMPORAL TRENDS OF HEAVY METALS IN SOIL - WATER SYSTEM Tomas PACES	
0850	HW01/10A/C26-002
CONSEQUENCES OF DRAINAGE AGRICOLE SUR LES ECOULEMENTS DE CRUE Claude COSANDEY, Tatiana MUXART, Marie-Jos- PENVEN	
0910	HW01/10A/C26-003
APPROACH IN IDENTIFICATION HEAVY METAL POLLUTION SOURCES OF DNIESTER RIVER Vera MUNTEANU	
0930	HW01/10A/C26-004
LIQUID ANALOG MODELLING OF RIVER POLLUTION PROBLEMS Parzhang MONADJEMI,	
0950	HW01/10A/C26-005
USING MAPS OF DOMINANT RUNOFF PROCESSES TO IDENTIFY AREAS THAT ARE SUSCEPTIBLE FOR PESTICIDE REMOVAL Petra SCHMOCKER-FACKEL, Felix NAEF	

1010	DISCUSSION
1030	BREAK

1050	HW01/10A/C26-006
AUTOMATIC STORM-TRIGGERED, CONTINUOUS AND DISCRETE HYDROCHEMICAL MONITORING ON A GRASSLAND CATCHMENT Wayne MENARY, Jeff SHI, Phil JORDAN, Richard DOUGLAS, Brian RIPPEY	
1110	HW01/10A/C26-007
CARBON BIOGEOCHEMISTRY IN A COOL-TEMPERATE FOREST WATERSHED IN NORTHERNMOST OF JAPAN Hideaki SHIBATA, Kentaro TAKAGI, Mutsumi NOMURA, Kaichiro SASA, Fuyuki SATOH, Tatsuya FUKAZAWA, Masazumi KAYAMA, Karibu FUKUZAWA, Mineko KOHNO, Masami OHGI, Yasumi FUJINUMA	
1130	HW01/10A/C26-008
APPLICATION OF STABLE ISOTOPES TO IDENTIFY NITRATE CONTAMINATION SOURCES AND ANALYZE HYDROLOGIC TRANSPORT: A CASE STUDY IN A SHALLOW AQUIFER, KOREA Seong-Chun JUN, Kang-Kun LEE	
1150	HW01/10A/C26-009
HYDROLOGICAL CONDITIONS AND ITS EFFECT ON NITROGEN DYNAMICS IN UNSATURATED LOAMY SOIL COVERING THE UPLAND SURFACE Baku OHJI, Hirohumi IWAMI, Changyuan TANG	

1210	HW01/10A/C26-010
N ₂ O EMISSION FROM TEMPERATE MONSOON FORESTS IN JAPAN AS CORRELATED WITH STREAM NO ₃ - CONCENTRATION Muneoki YOH, Yuji TAKESHIGE, Eiichi KONOHIRA	

HW05	Thursday, July 10 AM
GROUNDWATER RESOURCES FOR EMERGENCY SITUATIONS (ICGW)	
Location: Site C, Room 31	

Convener: N. Tase
Presiding Chairs: M. Bolgov, N. Tase

0830	HW05/10A/C31-001
PRESENT SITUATION AND ISSUES OF GROUNDWATER USE FOR EMERGENCY IN JAPAN Norio TASE, Yoshizumi HOSONO	
0850	HW05/10A/C31-002
EVALUATION OF GROUNDWATER DAM SITES FOR EMERGENCY WATER SUPPLY Sang-il LEE, Byeong-Chan KIM	
0905	HW05/10A/C31-003
CONJUNCTIVE USE OF GROUNDWATER AND SURFACE WATER FOR DRINKING WATER SUPPLY BY USING IRRIGATION RESERVOIRS Takeshi HATA	
0920	HW05/10A/C31-004
CONJUNCTIVE USE OF SURFACE AND GROUNDWATER RESOURCES FOR WATER SUPPLY OF NUCLEAR POWER PLANTS DURING EXTREME LOW FLOW PERIODS Mikhail V. BOLGOV	

0935	HW05/10A/C31-005
SIGNIFICANCE OF GROUNDWATER EXPLORATION AND ITS DEVELOPMENT IN NORTH WEST INDIAN HIMALAYAS: IMPLICATIONS FOR FINDING EMERGENCY AND SUSTAINABLE SOLUTIONS Ritesh ARYA	

0950	HW05/10A/C31-006
MEASURES, TAKEN FOR PREPARING UNDERGROUND WATER SOURCES TO BE USED IN CASE OF EMERGENCY Inom Sherovich NORMATOV	

1005	HW05/10A/C31-007
MANAGEMENT OF DROUGHT EVENTS IN A SMALL ISOLATED ISLAND Manta Devi NOWBUTH, Teeluck BHOWRUTH, Farook MOWLABACCUS	

1020	HW05/10A/C31-008
THE IMPACT OF REFUGEES ON GROUNDWATER RESOURCES IN KENYA Francis Mwaura MWANGI	

1035	BREAK
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1055	HW05/10A/C31-009
GROUNDWATER RECHARGE BY LEAKING WATER SUPPLY NETWORK IN LARGE CITIES, JAPAN Masaya YASUHARA	

1110	HW05/10A/C31-010
3D SOLID MODEL FOR GROUNDWATER AQUIFERS NORTH-EAST MOSUL Abdulghani A. HASAN	

1125	HW05/10A/C31-011
EVALUATING THE GROUNDWATER VULNERABILITY DUE TO OVER EXPLOITATION IN WALAWE BASIN, SRI LANKA Ranjan Priyantha SARUKKALIGE, Ashim Das GUPTA, So KAZAMA	

1140	HW05/10A/C31-012
ESTIMATION OF GROUNDWATER RESOURCES IN PAGERU RIVER BASIN, INDIA P.D. SREEDEVI, Shakeel AHMED	

HW07	Thursday, July 10 AM
TOWARDS A SCIENCE PROGRAM FOR PREDICTION IN UNGAUGED BASINS (ALL IAHS COMMISSIONS)	
Location: Site C, Room 25	

Convener: P.E. O'Connell
Co-Conveners: L. Kavvas, M. Sivapalan, J. McDonnell

0840	HW07/10A/C25-001	Invited
SCIENCE AND IMPLEMENTATION PLAN OF IAHS PUB: HERALDING EXCITING FUTURE FOR HYDROLOGIC SCIENCE AND PRACTICE Murugesu SIVAPALAN		

WEEK
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1000 **HW07/10A/C25-002** **Invited**
PUB FOR TRANSFORMING GLOBAL HYDRO-METEOROLOGICAL PRODUCTS
INTO LOCAL WATER RESOURCES INFORMATION
Kuniyoshi TAKEUCHI

1030 **BREAK**

1045 **HW07/10A/C25-003**
A METHODOLOGY FOR THE DYNAMICAL RECONSTRUCTION OF
HISTORICAL TIME-SPACE PRECIPITATION DATA OVER UNGAGED
WATERSHEDS: APPLICATION/VALIDATION OVER TOKYO AREA
M.L. KAVVAS, Z.Q. CHEN, M.L. ANDERSON, J.Y. YOON, J. YOSHITANI, T.
MATSUURA, H. OKUMURA

1100 **HW07/10A/C25-004**
USE OF SATELLITE REMOTE SENSING IN PREDICTION OF UNGAGED
BASINS
Venkat LAKSHMI

1115 **HW07/10A/C25-005**
ON THE COMBINED USE OF SURFACE AND AIRBORNE MEASUREMENTS
FOR BASIN SCALE ASSESSMENT
Yoram N. RUBIN, Yoram N. RUBIN, Katharine GROTE, Susan HUBBARD

1130 **HW07/10A/C25-006**
MULTISENSOR OBSERVATIONAL NETWORK OF RAINFALL FOR FIELD
EXPERIMENTS ON THE PUB PROBLEM
Witold F. KRAJEWSKI, Anton KRUGER

1145 **HW07/10A/C25-007**
MULTIFRACTAL SIMULATIONS OF RAIN, TIPPING BUCKET GAUGE
NETWORKS AND RADAR REFLECTIVITIES
Shaun M. LOVEJOY, Daniel SCHERTZER

1200 **HW07/10A/C25-008**
PROPOSAL FOR AN INTERNATIONAL NETWORK OF MESOSCALE
CATCHMENTS IN SUPPORT OF PREDICTION IN UNGAUGED BASINS (PUB)
Patrick Enda O'CONNELL, R.B. GRAYSON

1215 **HW07/10A/C25-009**
AN AUSTRALIAN COLLABORATIVE NETWORK FOR LONG-TERM
HYDROLOGICAL AND ECOLOGICAL MONITORING
Richard P. SILBERSTEIN



MI05 **Thursday, July 10 AM**

**LARGE SCALE PATTERNS OF ATMOSPHERIC VARIABILITY:
DYNAMICS, CLIMATE IMPACTS, AND ROLE IN RECENT
CLIMATE CHANGE (ICCL)**

Location: Site B, Room 17

Presiding Chairs: E.-J. Cha, M. Baldwin

0830 **MI05/10A/B17-001** **Invited**
SOME ISSUES IN STRATOSPHERE-TROPOSPHERE COUPLING
Theodore G. SHEPHERD

0910 **MI05/10A/B17-002**
PREDICTABILITY OF THE ARCTIC OSCILLATION
Mark P. BALDWIN, David B. STEPHENSON, Timothy J. DUNKERTON, David
W.J. THOMPSON, Andrew J. CHARLTON, Alan O'NEILL

0930 **MI05/10A/B17-003**
PROBABILISTIC SEASONAL FORECASTS OF THE NORTH ATLANTIC
OSCILLATION INDEX
Christof APPENZELLER, Wolfgang MUELLER, Mark Andrea LINIGER

0950 **MI05/10A/B17-004**
ROLE OF THE POLAR-NIGHT JET OSCILLATION ON THE FORMATION OF THE
ARCTIC OSCILLATION IN THE TROPOSPHERE
Yuhji KURODA, Kunihiro KODERA

1010 **BREAK**

1040 **MI05/10A/B17-005**
SIMULATING THE SOUTHERN ANNULAR MODE RESPONSE TO
STRATOSPHERIC OZONE DEPLETION
Nathan Peter GILLET, David THOMPSON

1100 **MI05/10A/B17-006**
THE ROLE OF LARGE-SCALE TOPOGRAPHY IN THE NORTHERN
HEMISPHERE ANNULAR MODE
Koji YAMAZAKI, Atsushi OGASAWARA, Rui NAKAZAWA, Hitoshi
MUKOUGAWA

1120 **MI05/10A/B17-007**
LIFE CYCLE OF NORTHERN HEMISPHERE STRATOSPHERIC POLAR
WARMING
Varavut LIMPASUVAN, David W.J. THOMPSON

1140 **MI05/10A/B17-008**
VERTICAL STRUCTURES OF ANNULAR-MODE VARIABILITY AND THE
CONTRASTING ROLES OF EDDY MOMENTUM AND HEAT FLUXES
Timothy J. DUNKERTON, Mark P. BALDWIN, David A. ORTLAND

1200 **MI05/10A/B17-009**
INTERANNUAL VARIATIONS OF PLANETARY WAVE ACTIVITY IN THE
NORTHERN HEMISPHERE WINTER AND THEIR RELATIONS TO THE NAM
AND SST
Wen CHEN, Masaaki TAKAHASHI, Hans-F. GRAF

MC03 **Thursday, July 10 AM**

DYNAMICS AND VARIABILITY OF MONSOON SYSTEMS (ICDM)

Location: Site A, Room 7

Presiding Chair: K. Cook

0830 **MC03/10A/A07-001** **Invited**
POTENTIAL PREDICTABILITY OF THE SOUTH AMERICA SUMMER MONSOON
William K. LAU, Kyu-Myong KIM

0910 **MC03/10A/A07-002**
REGIONAL MODULATIONS OF THE SOUTH AMERICAN MONSOON
PRECIPITATION
Ernesto Hugo BERBERY, Estela A. COLLINI

0930 **MC03/10A/A07-003**
SALLJEX-BRASIL: THE BRAZILIAN COMPONENT OF THE SOUTH AMERICAN
LOW LEVEL JET (SALLJEX) FIELD EXPERIMENT DURING DECEMBER 2002-
FEBRUARY 2003
Jose A. MARENGO, Tercio AMBRIZZI, Iracema Fonseca CAVALCANTI, Manoel
Alonso GN, Gilberto Fernando FISCH, Luiz Augusto MACHADO, Marcelo Enrique
SELUCHI, Maria Assuncao SILVA DIAS, Pedro Leite SILVA DIAS, Javier
TOMASELLA

0950 **MC03/10A/A07-004**
LA NINA IMPACT ON SUMMER MONSOON IN BRAZIL: LARGE-SCALE
INFLUENCES, REGIONAL PROCESSES AND ATLANTIC SST VARIATIONS
Alice Marlene GRIMM

1010 **BREAK**

1030 **MC03/10A/A07-005**
INFLUENCE OF LAND SURFACE ON TRANSITION FROM DRY TO WET
SEASON OVER SOUTH AMERICA
Rong FU, Wenhong LI

1050 **MC03/10A/A07-006**
DYNAMICS AND VARIABILITY OF THE SOUTH AMERICAN MONSOON
SYSTEM
Carlos Roberto MECHOSO

1110 **MC03/10A/A07-007**
A POSITIVE FEEDBACK PROCESS FOR MAINTAINING THE PRECIPITATION OF
THE SACZ
Yasu-Masa KODAMA

1130 **MC03/10A/A07-008**
ANALYSIS AND FORECAST OF THE MONSOON SYSTEM DURING A PERIOD
OF THE SOUTH AMERICA LOW LEVEL JET EXPERIMENT IN JANUARY 2003.
Iracema Fonseca CAVALCANTI, Pedro Leite SILVA DIAS, Maria Assuncao SILVA
DIAS, Celeste SAULO, Matilde NICOLINI, Jose Antonio MARENGO

1150 **MC03/10A/A07-009**
MODEL SIMULATION OF MOISTURE CONVERGENCE IN THE NORTH
AMERICAN MONSOON
David A. SALSTEIN

MC05 **Thursday, July 10 AM**

MIDDLE ATMOSPHERE SCIENCE (ICMA)

Location: Site A, Room 9

Presiding Chair: H.-Y. Chun

0830 **MC05/10A/A09-001** **Invited**
STRATOSPHERIC SUDDEN WARMING IN THE SOUTHERN HEMISPHERE IN
2002 AND ITS PREDICTABILITY
Toshihiko HIROOKA, Akiko MORI, Hitoshi MUKOUGAWA

0900 **MC05/10A/A09-002**
WHY DID THE 2002 SOUTHERN HEMISPHERE WARMING HAPPEN?
Richard SWINBANK, Adam SCAIFE, Neal BUTCHART, David JACKSON, Michael
KEIL, Hazel THORNTON

0920 MC05/10A/A09-003
ON THE TROPOSPHERIC ORIGINS OF UPWARD PROPAGATING ROSSBY WAVE TRAINS INVOLVED IN THE 2002 SOUTHERN HEMISPHERE MAJOR WARMING EVENT
Kazuak NISHII, Hisashi NAKAMURA

0940 MC05/10A/A09-004
PREDICTABILITY OF STRATOSPHERIC SUDDEN WARMINGS
Hitoshi MUKOUGAWA, Hirokazu SAKAI, Toshihiko HIROOKA

1000 MC05/10A/A09-005
LONG-TERM VARIABILITY OF THE ANTARCTIC VORTEX AND OZONE HOLE: HOW CLOSE IS THE UM TO PRODUCING A SH MAJOR WARMING?
Peter BRAESICKE, John PYLE

1020	BREAK	
1040 MC05/10A/A09-006		
QUASI-PERIODIC VARIATIONS OF THE POLAR VORTEX DUE TO WAVE-WAVE INTERACTION IN THE SOUTHERN HEMISPHERE STRATOSPHERE Yasuko HIO, Shigeo YODEN		
1100 MC05/10A/A09-007	Invited	
NEW MESOSPHERE WIND MEASUREMENTS AT THE SOUTH POLE: A LOOK AT THE ANTARCTIC MESOSPHERE RESPONSE TO A STRATOSPHERIC WARMING. Susan Kathryn AVERY, James AVERY, Scott PALO, Robert VINCENT, Damian MURPHY, Richard WALTERSCHEID		
1130 MC05/10A/A09-008		
PLANETARY WAVE ACTIVITY IN THE MIDDLE ATMOSPHERE ABOVE DAVIS, ANTARCTICA DURING THE 2002 AUSTRAL SPRING Andrew R. KLEKOCIUK, Andrew J. DOWDY, Robert A. VINCENT		
1150 MC05/10A/A09-009		
A PARAMETER SWEEP EXPERIMENT ON THE EFFECTS OF THE QBO PHASE ON STRATOSPHERIC SUDDEN WARMING EVENTS Yoko NAITO, Shigeo YODEN		
1210 MC05/10A/A09-010		
MESOPAUSE DYNAMICS FROM THE SCANDANAVIAN TRIANGLE OF RADARS WITHIN THE PSMOS-DATAR PROJECT Alan H. MANSON, C.E. MEEK, C.M. HALL, S. NOZAWA, N.J. MITCHELL, D. PANCHEVA, W. SINGER, P. HOFFMANN		

MC11	Thursday, July 10 AM
CLIMATE MODEL EVALUATION: HOW WELL DO MODELS REPRESENT OBSERVATIONS (ICCI)	
Location: Site B, Room 19	

Convener: P. Gleckler
Co-Convener: J. Polcher

0830 MC11/10A/B19-001
DEVELOPMENT OF AN INDEX TO QUANTIFY CLIMATE MODEL PERFORMANCE AND ITS APPLICATION TO PREDICTING CLIMATE CHANGE
David M.H. SEXTON, James MURPHY, David N. BARNETT, Mark J. WEBB

0900 MC11/10A/B19-002
EVALUATION OF AMPLITUDE-PHASE CHARACTERISTICS OF SURFACE AIR TEMPERATURE ANNUAL CYCLE: CLIMATE MODELS VERSUS REANALYSES
Alexey V. ELISEEV, Maria S. GUSEVA, Igor I. MOKHOV, Konstantin G. RUBINSTEIN

0920 MC11/10A/B19-003
FINE STRUCTURE OF THE ANNUAL CYCLE: A DISCRIMINATING TEST OF MODELS
Brian E. MAPES, In-Sik KANG

0940 MC11/10A/B19-004
COMPARISON OF RECENT RE-ANALYSES USING OBJECTIVE FEATURE TRACKING OF SYNOPTIC SCALE WEATHER SYSTEMS: HOW BELIEVABLE ARETHE RE-ANALYSES?
Kevin HODGES, Brian HOSKINS, Lennart BENGTTSSON, Jim BOYLE

1000 MC11/10A/B19-005
DEVELOPING A NEW CLIMATE MODEL FOR THE MET OFFICE - HADGEM1
Gill MARTIN, Vicky POPE, Rachel STRATTON

1020	BREAK
1040 MC11/10A/B19-006	
VALIDATING THE PHYSICS OF HADLEY CIRCULATION SEASONALITY IN MODELS Kerry Harrison COOK	
1100 MC11/10A/B19-007	
EXPLORING THE DIURNAL CYCLE OF PRECIPITATION IN AN AQUAPLANET MODEL:A POTENTIAL TESTBED FOR MODEL PARAMETRIZATIONS? Stephen WOOLNOUGH, Brian HOSKINS, Julia SLINGO	

1130 MC11/10A/B19-008
USING AN AQUA-PLANET MODEL TO INVESTIGATE MODEL SENSITIVITIES
Rachel A. STRATTON

1150 MC11/10A/B19-009
PROBABILISTIC CLIMATE FORECASTING USING DISTRIBUTED COMPUTING
Dave FRAME

MC17-Posters	Thursday, July 10 AM
PROPAGATION MECHANISMS FOR THE MADDEN-JULIAN OSCILLATION (MJO) (ICDM)	
Location: Site D	

Conveners: R.A. Madden, R. Milliff, T. Nakazawa

0830-182 MC17/10A/D-001 Poster
INTRASEASONNAL OSCILLATIONS IN LENGTH OF THE DAY AND POLAR MOTION VARIABILITY. ASSOCIATION WITH CLIMATIC AND SOLAR ACTIVITY INDICES
Daniel GAMBIS, Abarca del RIO

0830-183 MC17/10A/D-002 Poster
INTRASEASONAL OSCILLATIONS IN THE SACZ: OBSERVATIONS AND SIMULATION WITH A BAROCLINIC MODEL
Simone Erotildes FERRAZ, Tercio AMBRIZZI, Alice Marlene GRIMM



SS05	Thursday, July 10 AM
EDUCATION AND OUTREACH	
Location: Site A, Room 13	

Program Group D.D. Jackson, P. Bormann, G. Gibson, V.M. Hamza, A. El-Sayed, J. Taber
Presiding Chairs: D. Jackson, P. Bormann

0830 SS05/10A/A13-001
THE NEW MANUAL OF SEISMOLOGICAL OBSERVATORY PRACTICE (NMSOP): A CONTRIBUTION TO PROFESSIONAL EDUCATION AND CAPACITY BUILDING
Peter BORMANN

0845 SS05/10A/A13-002
24 YEARS INTERNATIONAL TRAINING COURSES ON SEISMOLOGY; SEISMIC HAZARD ASSESSMENT AND RISK MITIGATION: CONCEPT, PROGRAM AND IMPACT ASSESSMENT
Peter BORMANN, Jochen ZSCHAU

0900 SS05/10A/A13-003
TRIAL OF 'REMOTE SCIENCE CLASS' BY USE OF REAL-TIME HDTV VIDEO IMAGE FROM THE SEAFLOOR THROUGH A COMMUNICATION SATELLITE
Takeshi MATSUMOTO, Yasuhisa ISHIHARA, Tsutomu SHIGETA, Tatsuo SUZUKI, Masaki MAKIHARA

0915 SS05/10A/A13-004
THE DPRI-KU SATELLITE OFFICE FOR OUTREACH SUPPORTED BY THE 21ST CENTURY CENTER OF EXCELLENCE PROGRAM
Manabu HASHIMOTO, Haruo HAYASHI, Hironori KAWAKATA, Yoshiaki KAWATA, Kojiro IRIKURA, Shuichi IKEBUCHI

0930 SS05/10A/A13-005
INTERACTIVE LEARNING IN GEOPHYSICS: IMPLEMENTATION WITHIN THE FRAMEWORK FOR DISTANCE EDUCATION PROGRAM AT THE FEDERAL UNIVERSITY OF FLUMINENSE (UFF)
Luiz V.B. GOMES, Valiya M. HAMZA

0945 SS05/10A/A13-006
GEOPHYSICAL EDUCATION AND INSTRUMENTATION NEEDS IN THE D.R.CONGO
Ndontoni ZANA

1000 SS05/10A/A13-007
PUBLIC MOVEMENT AGAINST ENCROACHMENT OF LAKE AND ITS CONSERVATION IN BANGLADESH
Mostafa Md. KHALEQUZZAMAN, Md. SALEQUZZAMAN

1015 SS05/10A/A13-008
RIVER RESTORATION THROUGH MASS AWARENESS PROGRAM OF BANGLADESH
Mostafa Md. KHALEQUZZAMAN, Md. SALEQUZZAMAN

1030	BREAK
1045 SS05/10A/A13-009	
PUBLIC AWARENESS THROUGH EDUCATION: KEY FOR SEISMIC RISK REDUCTION Marina TER-ANANYAN, Serguei BALASSANIAN, Ashot MELIKSETYAN	

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- 1100 SS05/10A/A13-010**
METHOD OF COMPOSING PLANS FOR OPERATIVE AND EFFECTIVE ACTIONS OF MUNICIPAL SERVICES AFTER DESTRUCTIVE EARTHQUAKE
Sergey Norayr NAZARETYAN
- 1115 SS05/10A/A13-011**
EDUCATION PROGRAM FOR CHILDREN AND YOUTH BY THE SEISMOLOGICAL SOCIETY OF JAPAN
Masato KOYAMA, Kazuyuki NAKAGAWA, Manabu HASHIMOTO, Eiji KUWABARA, Masaki TAKAHASHI, Kojiro IRIKURA, A.D.2002 MEMBERS, A.D.1999-2001 MEMBERS, Voluntary MEMBERS
- 1130 SS05/10A/A13-012**
DISCUSSION ON THE DEFINITION OF SEISMIC MOMENT
Zhongliang WU, Yun-tai CHEN
- 1145 SS05/10A/A13-013**
EARTHQUAKE RESEARCH: STILL A YOUNG SCIENCE WITH STRONG POTENTIALS FOR FURTHER DEVELOPMENT
Yumin LI
- 1200 SS05/10A/A13-014**
EARTH SCIENCE EDUCATION AT UNIVERSITIES
Noriko SUGI

SW03-Posters Thursday, July 10 AM

LITHOSPHERIC STRUCTURE OF A SUPERCONTINENT: GONDWANA

Location: Site D

Program Group L.D. Brown, B.J. Drummond, M. Kanao, A. Kroner, P.R. Reddy, B.F. Windley
Presiding Chair: L. Brown

- 0830-235 SW03/10A/D-001 Poster**
LITHOSPHERIC SHEAR VELOCITY MODELS BENEATH CONTINENTAL MARGINS IN ANTARCTICA INFERRED FROM GENETIC ALGORITHM INVERSION FOR TELESEISMIC RECEIVER FUNCTIONS
Masaki KANAO, Takuo SHIBUTANI, Atsuki KUBO
- 0830-236 SW03/10A/D-002 Poster**
CRUSTAL STRUCTURE BENEATH THE MIZUHO PLATEAU, EAST ANTARCTICA, DEDUCED FROM A REFRACTION AND WIDE-ANGLE REFLECTION EXPLORATION
Hiroki MIYAMACHI, Sigeru TODA, Takeshi MATSUSHIMA, Masamitsu TAKADA, Atsushi WATANABE, Mikiya YAMASHITA, Masaki KANAO
- 0830-237 SW03/10A/D-003 Poster**
INTEGRATED MULTIDISCIPLINARY SURVEYS BY STRUCTURE AND EVOLUTION OF THE EAST ANTARCTIC LITHOSPHERE TRANSECT: SEAL-2000, -2002
Masaki KANAO, Hiroki MIYAMACHI, Shigeru TODA, Hiroshi MURAKAMI, Tomoki TSUTSUI, Takeshi MATSUSHIMA, Masamitsu TAKADA, Atsushi WATANABE, Mikiya YAMASHITA, Koji YOSHII
- 0830-238 SW03/10A/D-004 Poster**
DEEP CRUSTAL STRUCTURE BENEATH THE MIZUHO PLATEAU, EAST ANTARCTICA FROM SEISMIC EXPLORATION
Mikiya YAMASHITA, Hiroki MIYAMACHI, Takeshi MATSUSHIMA, Shigeru TODA, Masamitsu TAKADA, Atsushi WATANABE, Masaki KANAO
- 0830-239 SW03/10A/D-005 Poster**
HIGH P-T MEASUREMENTS OF P-WAVE AND S-WAVE VELOCITIES OF GRANULITES FROM ENDERBY LAND, EAST ANTARCTICA
Masahiro ISHIKAWA, Eisuke SHINGAI, Makoto ARIMA
- 0830-240 SW03/10A/D-006 Poster**
RAYLEIGH-WAVE GROUP VELOCITY DISTRIBUTION IN THE ANTARCTIC REGION
Reiji KOBAYASHI, Deo D. SINGH, Dapeng ZHAO
- 0830-241 SW03/10A/D-007 Poster**
CRUSTAL DENSITY STRUCTURE OF THE MIZUHO PLATEAU, EAST ANTARCTICA FROM GRAVITY SURVEY
Shigeru TODA, Hiroki MIYAMACHI, Tomoki TSUTSUI, Takeshi MATSUSHIMA, Hiroshi MURAKAMI, Masamitsu TAKADA, Atsushi WATANABE, Mikiya YAMASHITA, Masaki KANAO, Yoichi FUKUDA
- 0830-242 SW03/10A/D-008 Poster**
MAGMATIC AND METAMORPHIC EVIDENCE FOR PALEO-THETHYS SUTURE IN THE NORTHWEST OF IRAN
Mohsen MOAYYED
- 0830-243 SW03/10A/D-009 Poster**
ANOMALOUS CRUSTAL ROOT BENEATH SAURASHTRA PENINSULA, INDIA- INFERENCE FROM ISOSTASY
Bijendra SINGH, S.K. PRAJAPATI, D.C. MISHRA

SW05-Posters Thursday, July 10 AM

NEW TECHNOLOGIES AND GEOPHYSICAL DATA CHALLENGES

Location: Site D

Program Group Y.S. Tyupkin, R. di Giovambattista, V. Gitis, A. Hittelman

- 0900-244 SW05/10A/D-001 Poster**
DEVELOPING A COMMUNITY BASED VELOCITY CRUSTAL MODEL FOR EUROPEAN BORDER REGIONS
Rita DI GIOVAMBATTISTA, Remy BOSSU, EPSI TEAM
- 0900-245 SW05/10A/D-002 Poster**
AN ENGINEERING APPLICATION OF SURFACE WAVES ON OVERBURDEN SURVEY- A MODEL STUDY
Chao-Hui HSIEH, Yue-Hong KUO
- 0900-246 SW05/10A/D-003 Poster**
ON THE DEVELOPMENT OF A SIMPLE HAZARD AND RISK SIMULATION TOOL FOR THE USE OF CIVIL DEFENSE OFFICIALS, DISASTER MANAGERS, DECISION MAKERS AND CITY PLANNERS
Bautista Caparas BAUTISTA, Maria Leonila Pascual BAUTISTA, Ishmael Clarino NARAG, Arturo S. DAAG, Ma. Lynn Paladio MELOSANTOS, Angelito Galvez LANUZA, Raymundo Santiago PUNONGBAYAN
- 0900-247 SW05/10A/D-004 Poster**
ROLE OF GERORADAR IN PAVING ROADS
Yehia E. ABDELHADY, Essam A. MORSY, Sherif M. HANAFY, Eid R. ABOEZZ
- 0900-248 SW05/10A/D-005 Poster**
A STRATEGY OF EARTHQUAKE PREDICTION IN THE BAIKAL RIFT ZONE
Victor S. SELEZNEV, Sergey V. GOLDIN, Anatoliy S. ALEKSEEV, Petr G. DJAD'KOV, Vladimir Yu.TIMOFEEV, Victor M. SOLOVIEV, Alexander F. EMANOV, Genadiy I. TAT'KOV
- 0900-249 SW05/10A/D-006 Poster**
WLH 1.0 - WAVELAB AT HOME - A NEW TOOL FOR SEISMIC WAVES ANALYSIS ON PERSONAL COMPUTERS
Andrea BONO, Lucio BADIALI
- 0900-250 SW05/10A/D-007 Poster**
RESEARCH ON ESTABLISHING ECOLOGICAL INFORMATION SYSTEM OF WETLANDS WITH GIS
Min HAN, Xue TIAN, Hua MENG, Jixin YANG
- 0900-251 SW05/10A/D-008 Poster**
GTOOL: I/O LIBRARY AND ANALYSIS TOOL FOR GRIDDED DATA
Eizi TOYODA, Shin-Ichi TAKEHIRO, Masaki ISHIWATARI, Yoshi-Yuki HAYASHI
- 0900-252 SW05/10A/D-009 Poster**
NONSTATIONARY TIME SERIES MODELING FOR SIGNAL EXTRACTION PROBLEMS IN SEISMOLOGY
Genshiro KITAGAWA, Tetsuo TAKANAMI, Norio MATSUMOTO
- 0900-253 SW05/10A/D-010 Poster**
DATA BASES AND SYSTEM OF THE SATELLITE ALTIMETRY AND GEOPHYSICAL DATA PROCESSING FOR APPLICATION TO SOLVING GEOPHYSICAL, GEODETIC AND OCEANOGRAPHIC PROBLEMS WITH REMOTE ACCESS
Petr P. MEDVEDEV, V. NEPOKLONOV, D. MEDVEDEV

Thursday, July 10 PM



JSA07 Thursday, July 10 PM

REGIONAL CRUSTAL MODELS BASED ON SEISMIC, ELECTROMAGNETIC, POTENTIAL FIELD, AND GEOTHERMAL STUDIES (IAGA, IASPEI)

Location: Site A, Room 5

Presiding Chairs: F.T. Freund, A.G. Jones

- 1400 JSA07/10P/A05-001**
COMPOSITION OF THE LOWER CRUST BENEATH SOUTHEASTERN MARGIN OF NORTH CHINA CRATON: CONSTRAINTS FROM SEISMIC, THERMAL AND GEOCHEMICAL STUDIES
Yang WANG

1420 JSA07/10P/A05-002

ESTIMATION OF WATER CONTENT IN THE CRUST FROM RESISTIVITY STRUCTURE – A CASE STUDY IN BACK-ARC AREA OF THE TOHOKU DISTRICT, NE JAPAN –

Makoto UYESHIMA, Yasuo OGAWA

1440 JSA07/10P/A05-003

A STUDY ON THE CONDUCTIVITY STRUCTURE OF THE KOREAN PENINSULA BY GEOMAGNETIC DEPTH SOUNDING

Seokhoon OH, Jun-Mo YANG, Duk Kee LEE, Yong-Hoon YOUN, Byung-Doo KWON, Seung-Hwan CHUNG, Yoonho SONG, Kyung Duk MIN, Toru MOGI, Masao NAKADA

1500 JSA07/10P/A05-004

PASSIVE HIGH-RESOLUTION SEISMIC ARRAY STUDY OF THE CRUSTAL AND UPPER MANTLE STRUCTURE BENEATH THE DABIE SHAN REGION

Qiyuan LIU, Rainer KIND, Jiuhui CHEN, Xiaohui YUAN, Shuncheng LI, Biao GUO, Wylegalla KURT, Yuangen LAI

1520 JSA07/10P/A05-005

STRUCTURE AND GEODYNAMICS OF THE CRUST AND UPPER MANTLE ALONG THE PROFILE OBLUCHIE - DATTA CAPE ACCORDING TO THE COMPLEX OF GEOLOGICAL AND GEOPHYSICAL DATA

Lev Aleksandrovich MASLOV

1540 BREAK

1610 JSA07/10P/A05-006

LITHOSPHERIC STRUCTURE AT CONTINENTAL BREAK-UP REVEALED BY MAGNETOTELLURICS ACROSS THE NORTHERN ETHIOPIAN RIFT

Kathryn A. WHALER, Sophie HAUTOT, Laike ASFAW

1630 JSA07/10P/A05-007

CRUSTAL MODELLING ACROSS THE RENNICK GLACIER AREA (EAST ANTARCTICA)

Fausto FERRACCIOLI, Emanuele BOZZO, Egidio ARMADILLO, Detlef DAMASKE, Gernot REITMAYR, Nicola AGOSTINETTI, Giovanni TABELLARIO

1650 JSA07/10P/A05-008

INTEGRATED GEOPHYSICAL STUDY OF THE SEISMICALLY ACTIVE BHUJ REGION, INDIA

Anand P. SASHIDHARAN, Mita RAJARAM, Vinit ERRAM

1710 JSA07/10P/A05-009

APPARENT DENSITY MAPPING FROM GRAVITY DATA OF CHINA

Hualin ZENG, Deshu XU, Tianfeng WAN

1730 JSA07/10P/A05-010

RESULTS OF DENSITY MODELING OF THE LITHOSPHERE IN THE PHILIPPINE-TO-ASIAN PLATE TRANSITION ZONE, AS EXEMPLIFIED FROM THE RYUKYU ISLAND ARC

Gulya Zabirovna GILMANOVA, Vladimir Yakovlevich PODGORNYY

JSA08-Posters Thursday, July 10 PM

EFFECTS OF SOLAR VARIABILITY ON CLIMATE CHANGE (IAGA, IAMAS)

Location: Site D

Presiding Chair: K. Labitzke

1400-001 JSA08/10P/D-001 Poster

THE PHYSICAL MECHANISM OF FAST CHANGES OF SOLAR IRRADIANCE AND CLIMATE

Alexy I. LAPUKHOV

1400-002 JSA08/10P/D-002 Poster

SHARP CHANGES AND OSCILLATIONS OF CLIMATE IN SOLAR-TERRESTRIAL DATA IN THE PAST, PRESENT AS BASIS FOR FORECASTING THE FUTURE CLIMATE CHANGES

Tamara V. KUZNETSOVA, Lev B. TSIRULNIK

1400-003 JSA08/10P/D-003 Poster

SOLAR AND CLIMATE VARIATION RELATIONSHIP SEARCHED BY STUDYING TREE RING INDEX TIME SERIES FROM CHILE (1588 - 1994 A.D.)

Nivaor Rodolfo RIGOZO, Daniel Jean Roger NORDEMANN, Heloisa Helena FARIA, Ezequiel ECHER, Luiz Eduardo Antunes VIEIRA, Alan PRESTES

1400-004 JSA08/10P/D-004 Poster

SOLAR MAGNETIC FIELD AND MASS EJECTIONS DURING CYCLE 23

Ahmed Abdel HADY

1400-005 JSA08/10P/D-005 Poster

ON THE INFLUENCE OF HELIO-GEOPHYSICAL PARAMETERS ON GLOBAL CIRCULATION PATTERNS

Tomas HALENKA

JWH01 Thursday, July 10 PM

SNOW PROCESSES: REPRESENTATION IN ATMOSPHERIC AND HYDROLOGICAL MODELS (IAHS/ICSI, IAMAS)

Location: Site C, Room 30

Presiding Chair: R. Essery

1400 JWH01/10P/C30-001

BREAKUP OF INVERSION LAYER OVER SNOWY FORESTED BASIN

Toru IWAKURA, Yuji KODAMA, Nobuyoshi ISHIKAWA

1420 JWH01/10P/C30-002

PHYSICALLY-BASED HYDROLOGICAL MODEL OF SNOW ACCUMULATION, SUBLIMATION AND MELT EVALUATION IN NORTHERN RUSSIA

Alexander GELFAN, John W. POMEROY, Lev S. KUCHMENT

1440 JWH01/10P/C30-003

SOLAR VARIABILITY BENEATH OPEN AND DENSE CONIFER CANOPIES

Janet P. HARDY, Rae A. MELLOH, Geoff G. KOENIG, John W. POMEROY

1500 JWH01/10P/C30-004

A SENSITIVITY STUDY OF SNOWMELT TO THE DENSITY OF THE FOREST CANOPY

Jean E. SICART, John W. POMEROY, Raoul J. GRANGER, Richard E. ESSERY, Alexander N. GELFAN

1520 BREAK

Presiding Chair: J. Pomeroy

1600 JWH01/10P/C30-005

REPRESENTING SNOW-COVERED SURFACES IN ATMOSPHERIC MODELS : WHICH PROCESSES AND PARAMETERS MATTER ?

Richard ESSERY, Pierre ETCHEVERS, Eric MARTIN

1630 JWH01/10P/C30-006

COMPARISON OF SNOW COVER ENERGETICS DURING SPRING AT OPEN AND FORESTED SITES

Danny G. MARKS, Adam WINSTRAL

JWH01-Posters Thursday, July 10 PM

SNOW PROCESSES: REPRESENTATION IN ATMOSPHERIC AND HYDROLOGICAL MODELS (IAHS/ICSI, IAMAS)

Location: Site D

1400-006 JWH01/10P/D-001 Poster

THE SNOW COVER MODEL SNOWPACK-ECO: RADIATION AND SOIL MODULES TO STUDY PLANT GROWTH AND PERMAFROST

Michael LEHNING, Martina L. SCHG, Ingo Meirold-MAUTNER

1400-007 JWH01/10P/D-002 Poster

CHEMICAL PROPERTY OF SNOW IN THE JAPAN ALPS

Keisuke SUZUKI, Katsutaka YOKOYAMA

1400-008 JWH01/10P/D-003 Poster

THE SNOW PACK IN THE SWISS ALPS UNDERCHANGING CLIMATIC CONDITIONS:AN EMPIRICAL APPROACH FOR CLIMATEIMCAPTS STUDIES

Martin BENISTON, Franziska KELLER, Stephane GOYETTE

1400-009 JWH01/10P/D-004 Poster

SECOND PEAK OF THE SOLUTE CONCENTRATION IN SNOW MELTWATER

Gaku YAMAZAKI, Yoshiyuki ISHII

JSM11 Thursday, July 10 PM

GLOBAL SEA LEVEL RISE, GLOBAL CLIMATE CHANGE AND POLAR ICE SHEET STABILITY (IAMAS [ICDM, ICCL, ICPM], IAPSO, IAG, IAHS)

Location: Site B, Room 18

Presiding Chair: J. Zwally

1400 JSM11/10P/B18-001

LOW-FREQUENCY OCEAN VARIABILITY AND THE GLOBAL MEAN SEA LEVEL RISEPROBLEM

Rui M. PONTE, Detlef STAMMER, Carl WUNSCH

1420 JSM11/10P/B18-002

DETECTING THE FINGER-PRINT OF FORCING FACTORS CONTRIBUTING TO DECADEAL AND SECULAR SEA LEVEL VARIATIONS

Hans-Peter PLAG

1440 JSM11/10P/B18-003

SECULAR SEA LEVEL RISE IN THE RUSSIANSECTOR OF THE ARCTIC OCEAN

Richard W. PELTIER, Andrey PROSHUTINSKY

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1500 JSM11/10P/B18-004
WHAT IS THE MAIN CAUSE OF SEA LEVEL CHANGE AROUND JAPAN DURING 1969-1998
Sin-Iti IWASAKI, Tomonori MATSUURA, Wataru SASAKI, Isao WATABE

1520 BREAK

1600 JSM11/10P/B18-005
LONG TERM VARIABILITIES OF TIDES AND MEAN SEA LEVEL IN BRAZIL
Joseph HARARI, Carlos Augusto De Sampaio FRANÇA, Ricardo DE CAMARGO, Afranio Rubens DE MESQUITA

1620 JSM11/10P/B18-006
SEA LEVEL CHANGE IN INDONESIAN ARCHIPELAGO DERIVED FROM A DECADE TIDE GAUGE DATA
Parluhutan MANURUNG, Bambang S. PRATOMOSUNU, Rudolf W. MATINDAS, Cecep SUBARYA, Joko ANANTO

JSM11-Posters Thursday, July 10 PM

GLOBAL SEA LEVEL RISE, GLOBAL CLIMATE CHANGE AND POLAR ICE SHEET STABILITY (IAMAS [ICDM, ICCL, ICPM], IAPSO, IAG, IAHS)

Location: Site D

Presiding Chair: F. Remy

1700-010 JSM11/10P/D-001 Poster
RECENT EXAMPLES FOR THE CONSEQUENCES OF CLIMATE CHANGE ON THE FLOODS
Hamza OZGULER

1700-011 JSM11/10P/D-002 Poster
FORECASTING THE CASPIAN SEA LEVEL
Sadeh YARI, Nahid KHODAYARI

1700-012 JSM11/10P/D-003 Poster
GLOBAL ATMOSPHERE WATCH AND CLIMATE CHANGE MONITORING IN KOREA
Sung-Nam OH

1700-013 JSM11/10P/D-004 Poster
GLOBAL AND REGIONAL SEA LEVEL CHANGES FROM ALTIMETRY - RELATION WITH SEA SURFACE TEMPERATURE AND CLIMATE INDICES
Ole B. ANDERSEN, Per KNUDSEN, Brian BECKLEY

1700-014 JSM11/10P/D-005 Poster
CHANGES IN THE ANTARCTIC AND GREENLAND ICE SHEETS MASS AND THE INSTABILITY OF THE EARTH ROTATION OVER THE LAST 110 YEARS
Nikolai S. SIDORENKOV

1700-015 JSM11/10P/D-006 Poster
INVESTIGATION OF VERTICAL LAND MOVEMENT AND CURRENT EUSTASY BY MEAN SEA LEVEL TWO-FRAGMENT SERIES
George S. METREVELI

1700-016 JSM11/10P/D-007 Poster
GLOBAL MEAN SEA LEVEL RISE DURING THE 1990S AND THE PREVIOUS DECADES
Anny CAZENAVE, R.Steven NEREM, Alix LOMBARD

1700-017 JSM11/10P/D-008 Poster
BASAL SLIDING OF ICE SHEET OBTAINED FROM BALANCE VELOCITY AND SURFACE TOPOGRAPHY IN THE EAST DRONNING MAUD LAND, EAST ANTARCTICA
Shuhei TAKAHASHI, Okitsugu WATANABE

1700-018 JSM11/10P/D-009 Poster
SEA LEVEL CHANGE IN THE LAST DECADE-WHAT DO WE UNDERSTAND
Jens SCHROETER, Joanna STANEVA, Manfred WENZEL

1700-019 JSM11/10P/D-010 Poster
MODELLING GLOBAL CYCLE OF CARBON DIOXIDE IN SYSTEM OF "ATMOSPHERE-OCEAN" AND GLOBAL WARMING EFFECT
Alexander GLUSHKOV, Valery KHOKHLOV, Elena PONOMARENKO

JSP04 Thursday, July 10 PM

ARCTIC ENVIRONMENT CHANGE (IAPSO, IAMAS, IAHS)

Location: Site A, Room 6

Presiding Chair: L. Mysak

1400 JSP04/10P/A06-001
UNAAMI - RECENT LARGE BASIN-WIDE CHANGES IN THE ARCTIC
James E. OVERLAND, James H. MORISON

1420 JSP04/10P/A06-002
SPACE/TIME CHANGES IN ARCTIC ICE AGE DISTRIBUTION
William J. EMERY, Charles FOWLER, James A. MASLANIK

1440 JSP04/10P/A06-003
SENSITIVITY OF MODELED SEA ICE TO PARAMETERIZATIONS OF HEAT EXCHANGE PROCESSES
Alexander P. MAKSHITAS, Sergey V. SHOUTILIN

1500 JSP04/10P/A06-004
QUASI-PERIODIC WARMINGS OF THE ATLANTIC LAYER OF THE ARCTIC IN A HINDCAST SIMULATION 1948-2002
Ruediger GERDES, Michael KARCHER, Ursula SCHAUER, Cornelia KOEBERLE

1520 JSP04/10P/A06-005
A NEW VIEW OF PACIFIC WATER CIRCULATION IN THE ARCTIC OCEAN
Michael STEELE, James H. MORISON, Wendy ERMOLD, Ignatius RIGOR, Mark ORTMAYER, Koji SHIMADA

1540 BREAK

1600 JSP04/10P/A06-006
DECADAL VARIABILITY IN THE ARCTIC OCEAN SHOWN BY HYDROCHEMISTRY AND OTHER ENVIRONMENTAL DATA
Motoyoshi IKEDA, Hiroyasu YAMAGUCHI, Takayoshi IKEDA

1620 JSP04/10P/A06-007
DETECTING ARCTIC CLIMATE CHANGE USING KÖPPEN CLIMATE CLASSIFICATION
Muyin WANG, James E. OVERLAND

1640 JSP04/10P/A06-008
SEARCHING FOR EVIDENCE OF CLIMATIC CHANGE IN THE LENA RIVER BASIN TOWARD FEEDBACK TO THE LAPTEV SEA HYDROGRAPHY
Svetlana BEREZOVSKAYA, Igor DMITRENKO

1700 JSP04/10P/A06-009
INFLUENCE OF DECADAL ARCTIC OSCILLATION ON JAPAN (EAST) SEA AND OKHOTSK SEA
Shoshiro MINOBE

1720 JSP04/10P/A06-010
INFLUENCE OF INCREASED ATMOSPHERIC MOISTURE IN THE PROJECTED FUTURE CLIMATE ON THE ARCTIC OCEAN
Xiangdong ZHANG, Moto IKEDA, John E. WALSH

JSP04b-Posters Thursday, July 10 PM

ARCTIC ENVIRONMENT CHANGE (IAPSO, IAMAS, IAHS)

Location: Site D

1400-020 JSP04b/10P/D-001 Poster
INTENSE WARMING OF ARCTIC GLACIERS SUBJECTED TO SUB-SURFACE MELTING
Oleg V. NAGORNOV, Yurii V. KONOVALOV

1400-021 JSP04b/10P/D-002 Poster
A DATA-MODEL COMPARISON STUDY OF ARCTIC SEA-ICE VARIABILITY, 1958-1997
Anne ARMSTRONG, Bruno TREMBLAY, Lawrence A. MYSAK

1400-022 JSP04b/10P/D-003 Poster
RECENT VARIABILITY ON THE WATER MASS CHARACTERISTICS IN THE CENTRAL ARCTIC OCEAN
Takashi KIKUCHI, Kiyoshi HATAKEYAMA, James H. MORISON

1400-023 JSP04b/10P/D-004 Poster
SEA ICE VARIABILITY AND FUTURE ARCTIC MARINE OPERATIONS
Lawson W. BRIGHAM, Michael S. TIMLIN, John E. WALSH

1400-024 JSP04b/10P/D-005 Poster
THE RESULTS OF THE COMPLEX ANALYSIS OF SEISMOACTIVITY, TREE-RINGS AND CLIMATIC CHARACTERISTICS FOR THE AREA OF THE WHITE SEA
Taisya Yakovlevna BELENOVICH, Svetlana Vladimirovna VIDYAKINA

JSP09 Thursday, July 10 PM

PHYSICAL ASPECTS OF AIR-SEA INTERACTION (IAPSO, IAMAS)

Location: Site B, Room 20

Presiding Chair: S. Gulev

1400 JSP09/10P/B20-001 Invited
THE WHOI DAILY FLUX PRODUCT AND ITS COMPARISON WITH IN SITU FLUX MEASUREMENTS AND THE SOC CLIMATOLOGY
Lisan YU, Robert A. WELLER, Simon A. JOSEY

1430 JSP09/10P/B20-002
AIR-SEA INTERACTION ASSOCIATED WITH GREENLAND TIP JETS
Rebekah E. MARTIN, G.W.K. MOORE, Ian A. RENFREW

- 1445

JSP09/10P/B20-003

SST FORCING TO SURFACE WIND SPEED OVER THE MALVINAS/BRAZIL CONFLUENCE AND NORWEGIAN SEA

Hiroki TOKINAGA, Youichi TANIMOTO
- 1500

JSP09/10P/B20-004

INTERCOMPARISON OF HEAT FLUXES IN THE SOUTH ATLANTIC: PART II: INTERANNUAL VARIABILITY

Fabrice M. VAUCLAIR, Ilana WAINER
- 1515

JSP09/10P/B20-005

AN EXTENDED ASSOCIATE PATTERN ANALYSIS OF ENSO

Maochang CUI, Jun MO, Yongqiang YU
- 1530

JSP09/10P/B20-006

INFLUENCE OF TRANSIENT ATMOSPHERIC CIRCULATION ON THE SURFACE HEATING AND TEMPERATURE OF THE PACIFIC WARM POOL

Ming-Dah CHOU, Shu-Hsien CHOU, Pui-King CHAN
- 1545

JSP09/10P/B20-007

DENSE WATER GENERATION IN THE NORTH ADRIATIC: THE ROLE OF SURFACE FLUXES AND RIVER DISCHARGES

Ivica VILIBIC, Nastjenka SUPIC

1600

BREAK

- 1615

JSP09/10P/B20-008

SIGNATURES OF AIR-SEA INTERACTIONS IN A COUPLED ATMOSPHERE-OCEAN GCM

Jin-Song VON STORCH
- 1630

JSP09/10P/B20-009

AN ACTIVE ROLE OF EXTRATROPICAL SEA SURFACE TEMPERATURE ANOMALIES IN DETERMINING ANOMALOUS TURBULENT HEAT FLUX

Youichi TANIMOTO, Hisashi NAKAMURA, Takashi KAGIMOTO, Shozo YAMANE
- 1645

JSP09/10P/B20-010

AIRCRAFT OBSERVATIONS OF AIR MASS MODIFICATION OVER ADVANCING ICE COVERIN THE SEA OF OKHOTSK

Jun INOUE, Masayuki KAWASHIMA, Yasushi FUJIYOSHI, Masaaki WAKATSUCHI
- 1700

JSP09/10P/B20-011

THE MODIFIED CLOUD PHYSICAL ASPECTS OF A COLD AIRMASS CROSSING OVER THE JAPAN SEA AND ITS COASTAL REGION

Xueliang GUO, Ronghui HUANG, Hiroshi NIINO
- 1715

JSP09/10P/B20-012

IDENTIFICATION FOR INTERACTION BETWEENATMOSPHERE AND SEA SURFACE DEVELOPMENT CONDITIONS ABOVEINDONESIAN REGION DURING THE RAINY SEASON 2002(FROM JANUARY TO MARCH 2002)

Edison KURNIAWAN
- 1730

JSP09/10P/B20-013

WIND ENERGY INPUT TO SURFACE WAVES

Wei WANG, Rui Xin HUANG
- 1745

JSP09/10P/B20-014

STATISTICAL CHARACTERISTICS OF WAVES AND CURRENTS IN FRONT OF THE COASTAL WATER OF DAMIETTA, EGYPT

Fahmy M. EID, Sayed H. SHARAF EL-DIN

JSP10

Thursday, July 10 PM

ROTATING AND STRATIFIED FLUIDS (IAPSO, IAGA, IAMAS, SEDI)

Location: Site B, Room 21

- 1400

JSP10/10P/B21-001

NONLINEAR DYNAMICS OF A STRAINED VORTEX

Richard R. KERSWELL
- 1430

JSP10/10P/B21-002

THREE-DIMENSIONAL LINEAR INSTABILITY OF AN ELLIPTICALLY STRAINED VORTEX TUBE

Yasuhide FUKUMOTO
- 1450

JSP10/10P/B21-003

INTERACTION BETWEEN A Q-VORTEX AND EXTERNAL TURBULENCE

Naoya TAKAHASHI, Takeshi MIYAZAKI
- 1510

JSP10/10P/B21-004

QUASIGEOSTROPHIC ELLIPSOIDAL VORTICES: INSTABILITY, INTERACTION AND SCALAR MIXING

Takeshi MIYAZAKI, Wei QIN, Kensei SAKAMOTO
- 1530

JSP10/10P/B21-005

A LAGRANGIAN VIEW OF VORTEX MERGER

Oscar U. VELASCO FUENTES

1550

BREAK

- 1610

JSP10/10P/B21-006

ON THE VERTICAL ALIGNMENT OF GEOPHYSICAL VORTICES IN STABLY STRATIFIED INVISCID FLUID

Michael Thomas MONTGOMERY, David A. SCHECTER, Paul D. REASOR
- 1640

JSP10/10P/B21-007

RESONANT ROSSBY WAVE TRIADS AND THE SWINGING SPRING

Peter LYNCH
- 1700

JSP10/10P/B21-008

SPIN-UP FROM REST IN A STRATIFIED FLUID

Jan-Bert FLOR, John W.M. BUSH, Marius UNGARISH
- 1720

JSP10/10P/B21-009

INVARIANT PROPERTIES OF BASIC SETS OF GOVERNING EQUATIONS OF ENVIRONMENTAL FLUID MECHANICS

Vasiliy G. BAYDULOV, Yuli D. CHASHECHKIN
- 1740

JSP10/10P/B21-010

MEAN-FIELD HYDRODYNAMICS FOR TURBULENT FLOWS SUBJECTED ROTATION

Arakel S. PETROSYAN, Denis TSYGANKOV

JSS06b-Posters

Thursday, July 10 PM

EARTH STRUCTURE AND GEODYNAMICS (IASPEI, IAVCEI, IAG, IAGA)

Location: Site D

Presiding Chair: J. Plomerova

- 1400-025

JSS06b/10P/D-001

Poster

SEISMOTECTONICS OF THE LITHOSPHERE OF ACTIVE OCEANIC MARGINS

Serguey A. BOLDYREV
- 1400-026

JSS06b/10P/D-002

Poster

SPATIAL VARIATION IN ISOSTATIC PARAMETERS REVEALED THROUGH THE CONTINUOUS WAVELET TRANSFORM

Jonathan KIRBY, Christopher SWAIN
- 1400-027

JSS06b/10P/D-003

Poster

THE EFFECT OF NOISE ON ESTIMATES OF THE ELASTIC THICKNESS OF THE CONTINENTAL LITHOSPHERE BY THE COHERENCE METHOD

Christopher SWAIN, Jonathan KIRBY
- 1400-028

JSS06b/10P/D-004

Poster

ON THE INSTANTANEOUS MOTION OF THE SOUTH TASMAN SEA AND IT'S EFFECT ON THE ANTARCTIC PLATE

Atsuki KUBO, Yoshifumi NOGI, Tetsuzo SENO
- 1400-029

JSS06b/10P/D-005

Poster

HOW THICK IS THE LITHOSPHERE?

Irina M. ARTEMIEVA, Walter D. MOONEY
- 1400-030

JSS06b/10P/D-006

Poster

CONTINENT-CONTINENT COLLISION TECTONICS, REGIONAL UNDERPLATING AND ASSOCIATED KCR VOLCANISM IN CENTRAL INDIA

Saurabh Kumar VERMA
- 1400-031

JSS06b/10P/D-007

Poster

HIGH RESOLUTION SURFACE WAVE TOMOGRAPHY IN EAST ASIA AND WEST PACIFIC MARGINAL SEA

Jieshou ZHU, Jia Min CAO, Xue Lin CAI, Zhong Qun YAN
- 1400-032

JSS06b/10P/D-008

Poster

UPPER MANTLE HETEROGENEITIES BENEATH ANTARCTICA FROM MULTIMODE RAYLEIGH WAVEFORMS

Anne SIEMINSKI, Eric DEBAYLE, Jean-Jacques LEVEQUE
- 1400-033

JSS06b/10P/D-009

Poster

CONTINENTAL SURFACE AREA AND THE ASSEMBLY TIME FOR SUPERCONTINENTS

Gary T. JARVIS
- 1400-034

JSS06b/10P/D-010

Poster

CHAOTIC TOPOGRAPHY AND 'GODZILLA MULLION' IN THE PARECE VELA BASIN, IMPLICATIONS FOR COLD MANTLE AND DOMINANT AMAGMATIC EXTENSION

Kyoko OKINO, Yasuhiko OHARA
- 1400-035

JSS06b/10P/D-011

Poster

TELESEISMIC BODY- AND SURFACE-WAVE STUDIES IN THE LITHOPROBEWESTERN SUPERIOR TRANSECT: GLIMPSES INTO THE DEEPER ARCHITECTUREOF AN ARCHEAN CRATON

Stephane SOL, Colin J. THOMSON, Michael KENDALL, Don WHITE, Isa ASUDEH
- 1400-036

JSS06b/10P/D-012

Poster

LATERAL VARIATIONS OF SHEAR-WAVE SPLITTING BENEATH THE BOHEMIAN MASSIF - FIRST RESULTS OF PASSIVE SEISMIC EXPERIMENT BOHEMA

Jaroslava PLOMEROVA, Ludek VECSEY, Vladislav BABUSKA, Ulrich ACHAUER, Michel GRANET

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- 1400-037 JSS06b/10P/D-013 Poster**
CONSTRAINTS ON PALEOBOUNDARIES OF MICROCONTINENTS FROM LATERAL VARIATIONS OF SEISMIC ANISOTROPY IN THE MANTLE LITHOSPHERE
Vladislav BABUSKA, Jaroslava PLOMEROVA
- 1400-038 JSS06b/10P/D-014 Poster**
THE STRAUTURE OF LITHOSPHERE AND ASTHENOSPHERE IN EAST ASIA AND WEST PACIFIC MARGINAL SEA
Jieshou ZHU
- 1400-039 JSS06b/10P/D-015 Poster**
THE 3D STRUCTURE OF LITHOSPHERE AND AND ITS DYNAMIC IMPLICATIONS IN QINGHAI-TIBET PLATEAU
Jieshou ZHU
- 1400-040 JSS06b/10P/D-016 Poster**
SUBDUCTION ZONE STRUCTURE BENEATH INDONESIA (REVISITED)
Sri WIDIYANTORO, Gede SUANTIKA, Wahyu TRIYOSO
- 1400-041 JSS06b/10P/D-017 Poster**
INTERMEDIATE DEPTH EARTHQUAKES DISTRIBUTION AND THEIR FOCAL MECHANISM IN VRANCEA SEISMOGENICZONE, ROMANIA
Andrei BALA, Mircea RADULIAN, Emilia POPESCU
- 1400-042 JSS06b/10P/D-018 Poster**
ANISOTROPIC VELOCITY STRUCTURE OF THE JAPAN ISLANDS
Motoko ISHISE, Hitoshi ODA
- 1400-043 JSS06b/10P/D-019 Poster**
SELF-CONSISTENT DYNAMICAL MODELS OF THE SUBDUCTION IN THE MANTLE CONVECTION SYSTEM: ON THE DRIVING FORCE AND THE ROBUSTNESS OF GENERATION OF THE PLATE TECTONICS
Tomoeiki NAKAKUKI, Chiho HAMADA
- 1400-044 JSS06b/10P/D-020 Poster**
FLUID DISTRIBUTION IN THE MANTLE WEDGE OF NE JAPAN INFERRED FROM SEISMIC VELOCITY AND ATTENUATION STRUCTURES
Junichi NAKAJIMA, Akira HASEGAWA
- 1400-045 JSS06b/10P/D-021 Poster**
ON THE RELATIONSHIP BETWEEN ISOTOPE HETEROGENEITY AND CONVECTION IN THE EARTH'S MANTLE
Yury V. MIRONOV, Vladimir M. RYAKHOVSKY , Alexander A. PUSTOVOY
- 1400-046 JSS06b/10P/D-022 Poster**
LONG-TERM EVOLUTION OF THE GLOBAL WATER AND CARBON CYCLES
Siegfried A. FRANCK, Christine BOUNAMA, Werner VON BLOH

JSS07 Thursday, July 10 PM

TSUNAMIS: THEIR SCIENCE, ENGINEERING AND HAZARD MITIGATION (IASPEI, IAVCEI, IAPSO)
Location: Site A, Room 2

Presiding Chairs: V. Gusiakov, A. Yalciner, A. Rabinovich, F. Imamura

- 1400 JSS07/10P/A02-001**
CHANGES TO PACIFIC TSUNAMI WARNING CENTER PROCEDURES AND CRITERIA
Charles S. MCCREERY
- 1415 JSS07/10P/A02-002**
U.S. NTHMP EFFORTS TO DEVELOP FAR-FIELD TSUNAMI FORECAST GUIDANCE TOOLS
Frank I. GONZALEZ, Paul M. WHITMORE, Charles S. MCCREERY, David C. BURWELL, Vasily V. TITOV, Kwok Fai CHEUNG, Harold O. MOFJELD, Stanley GOOSBY
- 1430 JSS07/10P/A02-003**
TSUNAMI AMPLITUDE PREDICTION DURING EVENTS: A TEST BASED ON PREVIOUS TSUNAMIS
Paul Michael WHITMORE
- 1445 JSS07/10P/A02-004**
ASSESSING TSUNAMI MAGNITUDE FOR INUNDATION FORECAST
VASILY V. TITOV, Frank I. GONZALEZ, Mikhail LAVRENTIEV, Anatolii BEJAEV, Andrey MARCHUK, Alexander AVDEEV
- 1500 JSS07/10P/A02-005**
THE CHILEAN TSUNAMI WARNING SYSTEM AND APPLICATION OF THE TIME PROJECT TO THE CHILEAN COAST
Dante Gutierrez BESA
- 1515 JSS07/10P/A02-006**
TSUNAMI OBSERVATION FROM SATELITE BY DATA TOPEX_POSEIDON MISSION
Vladimir V. IVANOV

- 1530 JSS07/10P/A02-007**
OPTIMAL PLACING OF THE TWS SEA LEVEL STATIONS FROM POINT OF VIEW OF TIMELY TSUNAMI WARNING
Alexander A. POPLAVSKY

1545 BREAK

- 1600 JSS07/10P/A02-008**
LOCAL TSUNAMI WARNING PROBLEM AND HYDRO-ACOUSTICAL SIGNAL DETECTION FOR EARLY LOCATION OF THE SEISMIC SOURCE PREPARATION
Boris W. LEVIN, Elena V. SASSOROVA, Victor E. MOROZOV
- 1615 JSS07/10P/A02-009**
CAN MICRO-TSUNAMI ANALYSIS BE USED A NEW ADDITIONAL TOOL FOR EARTHQUAKE LOCATION AND SOURCE PARAMETER STUDY?
Kenji HIRATA, Eric L. GEIST, Kenji SATAKE, Yuichiro TANIOKA, Hiroaki TAKAHASHI
- 1630 JSS07/10P/A02-010**
DETECTING AND STUDYING TSUNAMI FROM IONOSPHERIC MONITORING
Juliette ARTRU, Vesna DUCIC, Victor TSAI, Hiroo KANAMORI, Philippe LOGNONNE, Makoto MURAKAMI
- 1645 JSS07/10P/A02-011**
FORECASTS OF TSUNAMIS FROM THE ALASKA-ALEUTIAN AND JAPAN-KURIL-KAMACHATKA SOURCE REGIONS
Kwok Fai CHEUNG, Yong WEI, Yoshiki YAMAZAKI

JSS07b-Posters Thursday, July 10 PM

TSUNAMIS: THEIR SCIENCE, ENGINEERING AND HAZARD MITIGATION (IASPEI, IAVCEI, IAPSO)

Location: Site D

Presiding Chairs: A. Rabinovich, F. Imamura

- 1700-047 JSS07b/10P/D-001 Poster**
ESTABLISHMENT OF A TSUNAMI ASSESSMENT MANUAL FOR NUCLEAR POWER FACILITIES
Hiroyoshi TANAKA, Makoto TAKAO, Tadashi ANNAKA
- 1700-048 JSS07b/10P/D-002 Poster**
CREATION OF THE GRIDDED BATHYMETRY FOR REGIONAL TSUNAMI MODELING
Andrei G. MARCHUK, Anatoly Yu. BEZHAEV
- 1700-049 JSS07b/10P/D-003 Poster**
THEORY OF EM MONITORING OF TSUNAMI WAVES FAR FROM A SHORE
Oleg Bencionovith NOVIK, Sergey Valentinovitch ERSHOV, Irina Borisovna MIKHAYLOVSKAYA
- 1700-050 JSS07b/10P/D-004 Poster**
DEVELOPING A COMPREHENSIVE TSUNAMI SIMULATOR FOR POSSIBLE TSUNAMI DISASTER PREPAREDNESS IN A COASTAL COMMUNITY
Shunichi KOSHIMURA, Tshitaka KATADA, Noriyuki KUWASAWA, Akichika ISHIBASHI, Kimiro MEGURO
- 1700-051 JSS07b/10P/D-005 Poster**
TOWARDS THE OPTIMIZATION OF REGIONAL TSUNAMI WARNING SYSTEMS VIA EARLY DETECTION AND MODELING
Atilio A. ASTE, Modesto ORTIZ, Salvador F. FARRERAS
- 1700-052 JSS07b/10P/D-006 Poster**
A TSUNAMI DETECTION SYSTEM USING RTK-GPS IN OFUNATO CITY, NORTHEASTERN JAPAN
Teruyuki KATO, Yukihiro TERADA, Shun'ichi KOSHIMURA, Takenori ABE
- 1700-053 JSS07b/10P/D-007 Poster**
A NEW TSUNAMI DETECTION SYSTEM USING RTK-GPS FOR LONG-DISTANCE OBSERVATION
Yukihiro TERADA, Teruyuki KATO, Keiji ITOH, Shuichi NAGATA, Takashi FUJITA, Takenori ABE, Toshihide MIYAKE, Toshihiko NAGAI, Shun'ichi KOSHIMURA, Shin'ichi MIYAZAKI
- 1700-054 JSS07b/10P/D-008 Poster**
MARINE EMERGENCY RESPONSE TO A CASCADIA MEGATHRUST EARTHQUAKE AND TSUNAMI
Fred E. STEPHENSON, Josef Y. CHERNIAWSKY
- 1700-055 JSS07b/10P/D-009 Poster**
ANALYSIS AND NUMERICAL MODELING OF THE NOVEMBER 18, 1929 GRAND BANKS LANDSLIDE-GENERATED TSUNAMI
Alexander B. RABINOVICH, Isaak V. FINE, Brian D. BORNHOLD, Richard E. THOMSON, Evgueni A.KULIKOV
- 1700-056 JSS07b/10P/D-010 Poster**
NUMERICAL SIMULATION OF TSUNAMI IN LINEAR AND NONLINEAR PROBLEMS BY IMAGINARY VARIABLE GRID SYSTEM METHOD USING NUMERICAL DISPERSION
Yoshinori SHIGIHARA, Fumihiko IMAMURA

- 1700-057 JSS07b/10P/D-011 Poster**
A HYDRAULIC EXPERIMENT AND NUMERICAL SIMULATION FOR THE WAVE BREAKING TRANSFORMATION OF SOLITON FISSION WAVES
Hiroyuki IWASE, Fumihiko IMAMURA
- 1700-058 JSS07b/10P/D-012 Poster**
TWO- AND THREE-DIMENSIONAL NUMERICAL MODELS FOR A TSUNAMI PROPAGATION PASSING AN OBSTACLE
Sung Jin HONG, Fumihiko IMAMURA
- 1700-059 JSS07b/10P/D-013 Poster**
ANALYTICAL STUDY ON SEABED DISPLACEMENT RESULTING FROM SEISMIC FAULTING
Shusaku INOUE, Tatsuo OHMACHI
- 1700-060 JSS07b/10P/D-014 Poster**
NUMERICAL SIMULATION OF LANDSLIDE TSUNAMI
Yasuyuki IWASE, Hiroshi IGARASHI, Hiroyuki FUJITA
- 1700-061 JSS07b/10P/D-015 Poster**
THE USING OF INFORMATION ABOUT SEA LEVEL IN TSUNAMI WARNING CENTER
Tatyana N. IVELSKAYA, TATYANA N. IVELSKAYA, Peter V. DUSHENKO, George V. SHEVSHENKO, Peter D. KOVALEV
- 1700-062 JSS07b/10P/D-016 Poster**
MOMENTUM AS A USEFUL QUANTITY IN TSUNAMI SCIENCE
Harold G. LOOMIS
- 1700-063 JSS07b/10P/D-017 Poster**
TSUNAMI RUN-UP SIMULATION TAKING INTO ACCOUNT DYNAMIC SEABED DISPLACEMENT DUE TO SEISMIC FAULTING
Atsushi MURAKAMI, Tatsuo OHMACHI, Shusaku INOUE
- 1700-064 JSS07b/10P/D-018 Poster**
EFFECTS OF DYNAMIC FAULT PARAMETERS ON TSUNAMI CHARACTERISTICS
Masahiro TOBATA, Shusaku INOUE, Tatsuo OHMACHI
- 1700-065 JSS07b/10P/D-019 Poster**
THE 1946 EVENT: A TRANSOCEANIC TSUNAMI GENERATED BY AN UNDERWATER LANDSLIDE
Philip WATTS, Gerard J. FRYER, Stephan T. GRILLI, James T. KIRBY, Fumihiko IMAMURA



G02-Posters Thursday, July 10 PM

ADVANCED SPACE TECHNOLOGY. MEETING OF IAG SECTION II

Location: Site D

Presiding Chairs: G. Appleby, H. Tsuji

- 1400-066 G02/10P/D-001 Poster**
THE IMPACT OF GPS SATELLITE CONFIGURATION ON POSITIONING
Jenn-Taur LEE
- 1400-067 G02/10P/D-002 Poster**
IMPROVED DETERMINATION OF GRAVITY FIELDS FROM GRACE RANGE RATES USING A REFINED ORBITAL PERTURBATION THEORY
Cheinway HWANG, Cheng-Gi WANG
- 1400-068 G02/10P/D-003 Poster**
CENTRE-OF-MASS CORRECTION OF SPHERICAL GEODETIC SATELLITES FOR MILLIMETRE LASER RANGING
Toshimichi OTSUBO, Graham M. APPLEBY
- 1400-069 G02/10P/D-004 Poster**
PHOTOMETRIC OBSERVATION OF LAGEOS-2 FOR DETERMINING ITS SPIN BEHAVIOUR
Toshimichi OTSUBO, Robert A. SHERWOOD, Philip GIBBS, Roger WOOD
- 1400-070 G02/10P/D-005 Poster**
PHYSICAL GEODESY WITH GPS
Fei LI, Wu CHEN
- 1400-071 G02/10P/D-006 Poster**
A NEW PROJECT OF GRAVITY MISSION STUDIES IN JAPAN
Yoichi FUKUDA, Toshimichi OTSUBO, Taizoh YOSHINO, Shuhei OKUBO
- 1400-072 G02/10P/D-007 Poster**
MODELLING OF GPS SATELLITE CLOCKS
Veronika BROEDERBAUER, Robert WEBER

- 1400-073 G02/10P/D-008 Poster**
ORBIT DETERMINATION OF THE NOZOMI SPACECRAFT USING DIFFERENTIAL VLBI TECHNIQUE
Ryuichi ICHIKAWA, Mamoru SEKIDO, Tetsuro KONDO, Yasuhiro KOYAMA, Hiroo OHSAKI, NOZOMI DVLBI group
- 1400-074 G02/10P/D-009 Poster**
AN EVALUATION OF POSITIONING ERROR ESTIMATED BY THE MESOSCALE NON-HYDROSTATIC MODEL
Ryuichi ICHIKAWA, Hiromu SEKO, Michael BEVIS
- 1400-075 G02/10P/D-010 Poster**
GROUND SIMULATOR DEVELOPMENT FOR INTER-SATELLITE LASER INTERFEROMETER
Taizoh YOSHINO, Hiroo KUNIMORI, Mizuhiko HOSOKAWA, Seiji KAWAMURA, Shigeo NAGANO, Isao NAITO, Takashi SATO, Masashi OHKAWA
- 1400-076 G02/10P/D-011 Poster**
RELATIVISTIC VLBI DELAY MODEL FOR FINITE DISTANCE RADIO SOURCE
Mamoru SEKIDO, Toshio FUKUSHIMA
- 1400-077 G02/10P/D-012 Poster**
STUDYING ERUPTION COLUMN OF THE AUGUST 18, 2000 MIYAKEJIMA ERUPTION, JAPAN, BY CONTINUOUS GPS MEASUREMENT
Dudy DARMAWAN, Bambang SETYADJI, Fumiaki KIMATA, Kazuro HIRAHARA
- 1400-078 G02/10P/D-013 Poster**
GROUND-BASE VERIFICATION OF FOUR-WAY DOPPLER MEASUREMENT FOR THE SELENE MISSION
Hirotomo NODA, Kazuyoshi ASARI, Yusuke KONO, Takahiro IWATA, Noriyuki NAMIKI, Hideo HANADA, Nobuyuki KAWANO, Zen'ichi YAMAMOTO
- 1400-079 G02/10P/D-014 Poster**
QUASI REAL-TIME POSITIONING OF SPACECRAFTS USING THE INTERNET VLBI SYSTEM
Tetsuro KONDO, Yasuhiro KOYAMA, Ryuichi ICHIKAWA, Mamoru SEKIDO, Hiro OSAKI
- 1400-080 G02/10P/D-015 Poster**
THE QUALITY OF GNSS ORBITAL SOLUTIONS DETERMINED FROM SATELLITE LASER RANGING
Graham Michael APPLEBY, Toshimichi OTSUBO
- 1400-081 G02/10P/D-016 Poster**
PRESENT-DAY DIFORMATION IN THE ZAGROS MOUNTAINS INFERRED FROM GPS MEASUREMENTS
Faramarz NILFOROUSHAN, Khaled HESSAMI, Christopher J. TALBOT
- 1400-082 G02/10P/D-017 Poster**
A SIMULATION STUDY OF GRAVITY FIELD RECOVERY BY MULTIPLE GRAVITY SATELLITES
Keiko YAMAMOTO, Yoichi FUKUDA
- 1400-083 G02/10P/D-018 Poster**
THE CONTRIBUTION OF OPERATIONAL RESEARCH TO EFFECTIVE GRAVITY MODEL IMPROVEMENT
Hussain A. SALEH
- 1400-084 G02/10P/D-019 Poster**
Adriaan Z.A. COMBRINK

G07 Thursday, July 10 PM

GLOBAL GEODETIC OBSERVING SYSTEM. IAG SYMPOSIUM

Location: Site A, Room 3

Presiding Chairs: H. Drewes, G. Sideris

- 1400 G07/10P/A03-001**
THE INTEGRATED GLOBAL GEODETIC OBSERVING SYSTEM (IGGOS) VIEWED FROM THE PERSPECTIVE OF HISTORY
Gerhard BEUTLER, Hermann DREWES, Andreas VERDUN
- 1420 G07/10P/A03-002**
THE IGGOS AS A PARTNER IN THE IGOS AND OTHER GLOBAL PROJECTS
Philip Leslie WOODWORTH, Thorkild AARUP
- 1440 G07/10P/A03-003**
MESI - A POSSIBLE GFZ CONTRIBUTION TO IGGOS
Christoph REIGBER
- 1500 G07/10P/A03-004**
INTEGRATION OF SPACE GEODESY: A US NATIONAL GEODETIC OBSERVATORY
Thomas P. YUNCK, Ruth E. NEILAN

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G07-Posters Thursday, July 10 PM

GLOBAL GEODETIC OBSERVING SYSTEM. IAG SYMPOSIUM

Location: Site D

- 1400-085 G07/10P/D-001 Poster**
DORIS AS A POTENTIAL PART OF A GLOBAL GEODETIC OBSERVING SYSTEM
Pascal WILLIS, Yoaz E. BAR-SEVER, Gilles TAVERNIER
- 1400-086 G07/10P/D-002 Poster**
THE IGGOS AS THE BACKBONE FOR GLOBAL OBSERVING AND LOCAL MONITORING: A USER-DRIVEN PERSPECTIVE
Hans-Peter PLAG
- 1400-087 G07/10P/D-003 Poster**
IMPROVEMENTS TO THE NEW MONGOLIAN REFERENCE FRAME MONREF 97 AND PLANS FOR IMPROVEMENTS TO THE MONGOLIAN GEOID
Mijiddorj SAANDARI
- 1400-088 G07/10P/D-004 Poster**
COMBINATION OF VLBI, GPS, AND SLR OBSERVATIONS AT THE OBSERVATION LEVEL
Per Helge ANDERSEN
- 1400-089 G07/10P/D-005 Poster**
DEVELOPMENT OF THE GPS ISRAELI ACTIVE NETWORK
Yosef MELZER, Moshe ROSENBLUM
- 1400-090 G07/10P/D-006 Poster**
AN ONLINE SATELLITE ALTIMETRY DATA PROCESSING SYSTEM: ADS CENTRAL
Tilo SCHOENE, Achim HELM, Alexander BRAUN, Hanjiang WEN, Christoph REIGBER
- 1400-091 G07/10P/D-007 Poster**
THE ORIGIN OF THE TRF FROM SATELLITE LASER RANGING
Erricos C. PAVLIS
- 1400-092 G07/10P/D-008 Poster**
GLOBAL COMPARISON OF SLR, DORIS, AND GPS POSITION TIME SERIES FOR COLLOCATED SITES
Joelle NICOLAS, Laurent SOUDARIN, Jean-Mathieu NOCQUET, Zuheir ALTAMIMI, David COULOT
- 1400-093 G07/10P/D-009 Poster**
THE IERS INFORMATION AND DATABASE SYSTEM
Bernd RICHTER, Wolfgang SCHWEGMANN, Wolfgang R. DICK
- 1400-094 G07/10P/D-010 Poster**
THE CONTRIBUTION OF THE IERS TO THE IGGOS CONCEPT
Bernd RICHTER, Markus ROTHACHER, Jan VONDRACK
- 1400-095 G07/10P/D-011 Poster**
QUINS - GRADIOMETRIC MISSION WITH FIVE MICROSATELLITES
Erik W. GRAFAREND, Gerrit AUSTEN, Oliver BAUR, Petar MARINKOVIC, Mohammad A. SHARIFI, Hans P. ROESER, Maria V. SCHOENERMARK
- 1400-096 G07/10P/D-012 Poster**
THE INTERNATIONAL LASER RANGING SERVICE AND ITS SUPPORT FOR IGGOS
Michael R. PEARLMAN, Carey E. NOLL, Van S. HUSSON
- 1400-097 G07/10P/D-013 Poster**
DEVELOPMENT OF TWO COLOR INTERFEROMETER FOR DISTANCE MEASUREMENT WITH AN AUTOMATIC CORRECTION OF AIR REFRACTIVE INDEX
Souichi TELADA, Ichiro FUJIMA, Hirokazu MATSUMOTO
- 1400-098 G07/10P/D-014 Poster**
THE INTERNATIONAL VLBI SERVICE FOR GEODESY AND ASTROMETRY (IVS) AND ITS PROSPECTIVE
Wolfgang SCHLUETER, Nancy VANDENBERG
- 1400-099 G07/10P/D-015 Poster**
FROM NETWORKS OF STATIONS TO SPATIALLY CONTINUOUS LAND SURFACE DISPLACEMENTS: INTEGRATION OF TECHNIQUES AT REGIONAL SCALE
Susanna ZERBINI, Johannes IHDE, Alessandro FERRETTI, Luciano LAGO, Bernd RICHTER, Fabio ROCCA, Claudia ROMAGNOLI, Dietrich SIMON
- 1400-100 G07/10P/D-016 Poster**
DEVELOPMENT OF AN EUROPEAN COMBINED GEODETIC NETWORK (ECGN)
Johannes IHDE, Trevor BAKER, Carine BRUYNINX, Oliver FRANCIS, Jacques HINDERER, Ambrus KENYERES, Jaakko MAKINEN, Hans ROHDE, Jaroslav SIMEK, Herbert WILMES
- 1400-101 G07/10P/D-017 Poster**
THE INTERNATIONAL GEOID SERVICE: ACTIVITIES AND FUTURE PLANS
Riccardo BARZAGHI, Fernando SANSONO, Ludovico BIAGI, Alessandra BORGHI

- 1400-102 G07/10P/D-018 Poster**
THE INTERNATIONAL GPS SERVICE TRACKING NETWORK: ENABLING DIVERSE STUDIES AND PROJECTS THROUGH INTERNATIONAL COOPERATION
Angelyn W. MOORE, Ruth E. NEILAN
- 1400-103 G07/10P/D-019 Poster**
FROM CLEARINGHOUSE SYSTEMS FOR SATELLITE PRODUCTS TO INTEGRATED DATAWAREHOUSE SERVICES FOR SCIENTISTS, DECISION MAKER AND THE INTERESTED PUBLIC
Bernd RITSCHHEL, Knut BEHREND, Stephan BRAUNE, Sebastian FREIBERG, Ronny KOPISCHKE, Hartmut PALM, Andrea SCHMIDT
- 1400-104 G07/10P/D-020 Poster**
A CONTRIBUTION OF THE GEODETIC OBSERVATORY PECNY, CZECH REPUBLIC, TO INTERNATIONAL GEOSCIENTIFIC SERVICES AND PROJECTS
Jaroslav SIMEK, Jan DOUSA, Jakub KOSTELECKY, Vojtech PALINKAS



GAll.07-Posters Thursday, July 10 PM

WHAT IS THE ROLE OF NON-LINEAR PROCESSES AND COMPLEX SYSTEM DYNAMICS IN DETERMINING MAGNETOSPHERIC BEHAVIOR?

Location: Site D

- 1400-105 GAll.07/10P/D-001 Poster**
PARTICLE DYNAMICS IN FULL PARTICLE SIMULATION OF SLOW WAVES
DongSheng CAI, Bertrand LEMBEGE
- 1400-106 GAll.07/10P/D-002 Poster**
NONLINEAR EVOLUTION OF MIRROR-MODE INSTABILITY
B.-J. WANG, L.-N. HAU
- 1400-107 GAll.07/10P/D-003 Poster**
NONLINEAR EVOLUTION OF WAVE PARTICLE INTERACTION BY A PARTICLE-IN-CELL NUMERICAL CODE
Manashi na ROY, G.S. LAKHINA
- 1400-108 GAll.07/10P/D-004 Poster**
SIMULATION STUDY ON GENERATION MECHANISM OF ELECTRON/ION HOLES IN SPACE PLASMAS
Keisuke NINOMIYA, Yoshiharu OMURA, Hiroshi MATSUMOTO
- 1400-109 GAll.07/10P/D-005 Poster**
EVALUATION OF PHASE COHERENCE AMONG MHD WAVES
Daiki KOGA, Tohru HADA
- 1400-110 GAll.07/10P/D-006 Poster**
AURORAS DYNAMICS AS STRANGE ATTRACTOR MANIFESTATION
Victoria G. VASILYEVA
- 1400-111 GAll.07/10P/D-007 Poster**
NONLINEAR BUNEMAN INSTABILITY UNDER THE PERPENDICULAR MAGNETIC FIELD
Keisuke MERA, Masahiro HOSHINO

GAll.09-Posters Thursday, July 10 PM

HOW DOES ENERGY FLOW FROM THE SOLAR CORONA THROUGH THE MAGNETOSPHERIC REGIONS?

Location: Site D

Convener: B. Thompson

- 1400-112 GAll.09/10P/D-001 Poster**
STUDY OF INTENSE GEOMAGNETIC STORMS
Geeta V. JADHAV, Shobhana ALEX, G.S. LAKHINA
- 1400-113 GAll.09/10P/D-002 Poster**
RELATIONSHIPS BETWEEN MAGNETOSPHERIC DISTURBANCES AND SOLAR ACTIVITIES OBSERVED FROM APRIL 30 TO MAY 5, 1998
Haruka ADACHI, Tohru SAKURAI, Katsuhide MARUBASHI
- 1400-114 GAll.09/10P/D-003 Poster**
HOW TO USE MODERN SPACE SCIENCE MODELS AT THE COMMUNITY COORDINATED MODELING CENTER
Masha M. KUZNETSOVA, Lutz RASTAETTER, Michael HESSE, Kristi KELLER, Ayris FALASCA, John DORELLI

GAIII.10 Thursday, July 10 PM

HOW CAN WE USE WAVES AS DIAGNOSTIC PROBES FOR SPACE WEATHER STUDIES?

Location: Site A, Room 1

Convener: K. Yumoto

Co-Conveners: F. Menk, A. Smith

Presiding Chairs: F.W. Menk, K. Yumoto

1400 GAIII.10/10P/A01-001

USING ULF WAVES AS DIAGNOSTIC PROBES OF THE MAGNETOSPHERIC DENSITY

Fred W. MENK, Mark A. CLILVERD, Bill R. SANDEL, Don L. CARPENTER, Ian R. MANN

1420 GAIII.10/10P/A01-002

PLASMASPHERIC MASS COMPOSITION DYNAMICS: IMAGE AND GROUND BASED RESULTS

David BERUBE, Mark B. MOLDWIN, James L. GREEN, Shing F. FUNG

1440 GAIII.10/10P/A01-003

CO-ORDINATED IMAGE SATELLITE AND GROUND-MAGNETOMETER OBSERVATIONS OF AN ANOMALOUS CROSS-PHASE REVERSAL AT $L = 3.2$: THE SIGNATURE OF A STEEP PLASMAPAUSE?

Zoe C. DENT, Ian R. MANN, F.W. MENK, J. GOLDSTEIN, L.G. OZEKE

1500 GAIII.10/10P/A01-004

STORM TIME PLASMA MASS DENSITY ESTIMATED USING ULF WAVES OBSERVED BY CRRES

Kazue TAKAHASHI, Richard E. DENTON, Roger R. ANDERSON, W. Jeffrey HUGHES

1520 GAIII.10/10P/A01-005

TRAVEL-TIME MAGNETOSEISMOLOGY: A NEW DIAGNOSTIC TOOL FOR SPACE WEATHER STUDIES

Peter J. CHI, Christopher T. RUSSELL

1540 GAIII.10/10P/A01-006

PLASMA DENSITY DIAGNOSIS BASED ON FIELD LINE RESONANCES IN 3D MAGNETOSPHERE

C.Z. CHENG, S. ZAHARIA

1600 GAIII.10/10P/A01-007

MAGNETOSPHERE-IONOSPHERE-ATMOSPHERE-EARTH ELECTROMAGNETICALLY COUPLED MODEL FOR SPACE-WEATHER STUDY

Akimasa YOSHIKAWA, Kiyohumi YUMOTO, Masahiro ITONAGA

1620 GAIII.10/10P/A01-008

PROBING PLASMASPHERIC RESONANCES WITH TWO INDEPENDENT ULF TECHNIQUES

Fred W. MENK, Mark CLILVERD, Keith YEARBY, Gennadi MILINEVSKI, Neil Thomson, Mike ROSE

1640 GAIII.10/10P/A01-009

THE ROLE OF WAVES IN RADIATION BELT MODELING AND SPACE WEATHER STUDIES

Danny SUMMERS

1700 GAIII.10/10P/A01-010

STOCHASTIC TECHNIQUES FOR GLOBAL PLASMASPHERIC PROFILE ESTIMATION USING VLF WAVES

Yoshitaka GOTO, Yoshiya KASAHARA, Toru SATO

1720 GAIII.10/10P/A01-011

THE AVERAGE ELF/VLF WAVE POWER RECEIVED ON THE GROUND IN ANTARCTICA, AND ITS DIURNAL, SEASONAL AND SOLAR-CYCLE VARIATIONS

A.J. SMITH

1740 GAIII.10/10P/A01-012

NEAR-EARTH SPACE DIAGNOSTICS BY MF WAVES (ALTERNATIVE OF LF WAVES)

Donat V. BLAGOVESHCHENSKY, Olga MALTSEVA

GAIII.11-Posters Thursday, July 10 PM

HOW DO SPACECRAFT INTERACT WITH THEIR SPACE ENVIRONMENT?

Location: Site D

1400-115 GAIII.11/10P/D-001

Poster

EFFECTIVE LENGTHS OF CROSSED WIRE ANTENNAS ONBOARD AKEBONO

Ryoichi HIGASHI, Tomohiko IMACHI, Satoshi YAGITANI, Isamu NAGANO, Iwane KIMURA

1400-116 GAIII.11/10P/D-002

Poster

INFLUENCE OF THE SHEATH IMPEDANCE OF THE BIASED PROBE ON THE MEASUREMENTS OF THE SPACECRAFT POTENTIAL

Keigo ISHISAKA, Yasumasa KASABA, Toshimi OKADA, Hajime HAYAKAWA, Toshifumi MUKAI

1400-117 GAIII.11/10P/D-003

Poster

ELECTRICAL CHARGING OF THE ROSETTA ORBITER, (2) LABORATORY SIMULATION

Jean-Jacques BERTHELIER, Jean-François ROUSSEL

1400-118 GAIII.11/10P/D-004

Poster

EXPERIMENTAL STUDY OF TRANSIENT CHARGING PHENOMENA OF A FLOATING BODY WITH ION BEAM EMISSION

Ikkoh FUNAKI, Hideyuki USUI, Hitoshi KUNINAKA, Masaki OKADA, Yoshinori NAKAYAMA

1400-119 GAIII.11/10P/D-005

Poster

MHD SIMULATION OF THE EXHAUST PLASMA PLUME IN THE VASIMR ADVANCED PROPULSION CONCEPT

Alfonso G. TARDITI, John V. SHEBALIN, Edgar A. BERING

1400-120 GAIII.11/10P/D-006

Poster

USING THE HISTORICAL RECORDS OF SPACECRAFT MALFUNCTION DATA TO STUDY THE IMPACTS OF FUTURE SPACECRAFT OPERATION IN THE SPACE PLASMA ENVIRONMENT VERSUS THE SPACE DEBRIS ENVIRONMENT

Shin-Yi SU

GAV.06 Thursday, July 10 PM

MODERN MAGNETIC SURVEYS FOR REGIONAL TECTONICS, GEOHAZARDS AND ENVIRONMENTAL INVESTIGATIONS

Location: Site A, Room 11

Presiding Chair: R. Saltus

1400 GAV.06/10P/A11-001

INDIAN TECTONIC STRUCTURE THROUGH AEROMAGNETIC DATA

Mita RAJARAM, Anand SASIDHARAN

1420 GAV.06/10P/A11-002

ANALYSIS OF AEROMAGNETIC DATA OVER SINGHBHUM, INDIA, FOR IDENTIFICATION OF URANIUM DEPOSITS

Anand P. SASHIDHARAN, Mita RAJARAM

1440 GAV.06/10P/A11-003

AEROMAGNETIC IMAGING OF THE JUTULSTRAUMEN AREA, WESTERN DRONNING MAUD LAND (EAST ANTARCTICA)

Fausto FERRACCIOLI, Phil JONES

1500 GAV.06/10P/A11-004

AIRBORNE AND GROUND GEOPHYSICS USED FOR REGIONAL TECTONIC ANALYSIS

Sven G. AARO, Håkan SJÖSTRÖM

1520 GAV.06/10P/A11-005

THE OKAVANGO GIANT DYKE SWARM (NORTHERN BOTSWANA): INSIGHTS FROM COMBINED GROUND-LEVEL MAGNETIC AND AEROMAGNETIC DATA

Jérôme DYMENT, Gomotsang TSHOSO, Charly AUBOURG, Bernard LEGALL, Jean-Jacques TIERCELIN, Fred JOURDAN

1540

BREAK

1600 GAV.06/10P/A11-006

DEEP-SEA MAGNETIC SURVEY OF RAINBOW HYDROTHERMAL SITE ON THE MID-ATLANTIC RIDGE: MAGNETIC SIGNATURE OF A HYDROTHERMAL SITE IN ULTRAMAFIC ENVIRONMENT

Kaori NAKASE, Jérôme DYMENT, Kensaku TAMAKI, Michiko YAMAMOTO, Morgane RAVILLY, Mitsuko KITAZAWA, Yves FOUQUET

1620 GAV.06/10P/A11-007

SUBSURFACE STRUCTURE MAPPING OF QUSEIR AREA, NORTHERN RED SEA, EGYPT, USING HIGH-RESOLUTION AEROMAGNETIC DATA

Abuelhoda Mahmoud ELSIRAFI, Ahmed Said SALEM, Keisuke USHIJIMA

1640 GAV.06/10P/A11-008

MAGNETIC AND SEISMIC STUDIES FOR DELINEATION OF THE SHAPE AND PARAMETERS OF EL HAMRA WATER RESERVOIR BURIED STRUCTURE, WESTERN DESERT, EGYPT

Nasser Mohamed HASSAN, Mohamed El-Saeed EL-BOHOTY, Fathy Mohamed AHMED, Taha Taha RABAH

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HS02 Thursday, July 10 PM

WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)

Location: Site C, Room 24

Presiding Chair: D. Rosbjerg

- 1400 HS02/10P/C24-001**
RESERVOIRS AND GLOBAL CHANGE - AN EVALUATION APPROACH
Elke PETERSSON, Manfred W. OSTROWSKI
- 1415 HS02/10P/C24-002**
WATER MANAGEMENT IN INDIA'S NATIONAL WATER POLICY
Sitharama Murty KOTTAPALLI
- 1430 HS02/10P/C24-003**
TOWARDS A NEW PARADIGMA FOR INTEGRATED WATER RESOURCES MANAGEMENT AND DEVELOPMENT IN INDONESIA
Joesron LOEBIS
- 1445 HS02/10P/C24-004**
SOIL AND WATER CONSERVATION STRATEGIES IN THE LAKE OF RAWA DANO, WEST JAVA, INDONESIA
Seno ADI

1500 DISCUSSION

HS02-Oral-Posters Thursday, July 10 PM

WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)

Location: Site C, Room 24

Presiding Chair: D. Rosbjerg

- 1515 HS02/10P/C24-001OP Oral-Poster**
ASSESSMENT OF IMPACT OF URBANISATION ON STORMWATER RUNOFF
Rathnam Venkata ERVA, Jayakumar V. K.
- 1519 HS02/10P/C24-002OP Oral-Poster**
USE OF PHYSICALLY BASED MODEL FOR FLOOD ESTIMATION IN SMALL CATCHMENTS IN A DATA SCARCE ENVIRONMENT
Jayakumar KANDATHIL VALAPPIL, Ramaseshan S.
- 1523 HS02/10P/C24-003OP Oral-Poster**
PHYSICALLY-BASED MODELS FOR FLOODS MODELLING IN THE MEDITERRANEAN AREA
Philippe GOURBESVILLE, Vincent GUNOT
- 1527 HS02/10P/C24-004OP Oral-Poster**
FLOOD FORECASTING & MANAGEMENT IN PAKISTAN
Shaukat A. AWAN
- 1531 HS02/10P/C24-005OP Oral-Poster**
DETECTION ON RAINFALL VARIETY IN WESTERN TAIWAN
Pao Shan YU, Chia Wen SUNG, Tao Chang YANG
- 1535 HS02/10P/C24-006OP Oral-Poster**
THE INTEGRATED RISK ANALYSIS OF OVER-STANDARD FLOOD FOR FLOOD CONTROL SYSTEM
Xiang ZHANG, Xinyu WANG, Guowei LAI
- 1539 HS02/10P/C24-007OP Oral-Poster**
LONG-TERM CHANGE IN DAILY RAINFALL CHARACTERISTICS AT OKAYAMA
Hidetaka CHIKAMORI, Akihiro NAGAI
- 1543 HS02/10P/C24-008OP Oral-Poster**
HYDROLOGICAL REGIONALIZATION USING THE TCEV METHOD WITH THE SUPPORT OF A GEOGRAPHICAL INFORMATION SYSTEM
Cristiane M. FINZI, Iara Righi AMRAL, Bruno Rabelo VERSIANI
- 1547 HS02/10P/C24-009OP Oral-Poster**
WATER RESOURCES SUSTAINABILITY IN THE CONTEXT OF CLIMATE VARIABILITY AND INCREASING EXTREME EVENTS IN THE HIMALAYAN-INDO-GANGETIC PLAINS
R. B. SINGH
- 1551 HS02/10P/C24-010OP Oral-Poster**
APPROACH FOR ASSESSMENT OF RISK AND CHANGES IN EXTREME HYDROLOGICAL CHARACTERISTICS
Helen (Elena) Vladislavovna LOBANOVA
- 1555 HS02/10P/C24-011OP Oral-Poster**
ASSESSMENT OF THE RISKS OF EXTREME RAINS OCCURENCE DEPENDING ON THEIR GENESIS
Ionel HAIDU

HS02b-Posters Thursday, July 10 PM

WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)

Location: Site D

- 1630-121 HS02b/10P/D-001 Poster**
A TREE MODEL FOR RAINFALL PREDICTION
A.W. JAYAWARDENA, Xu PENCHANG
- 1630-122 HS02b/10P/D-002 Poster**
CHARACTERISTICS OF INTERCEPTION LOSS AND FORMULATION OF AN APPROPRIATE MODEL FOR THREE REGIONS WITH DIFFERENT CLIMATE AND FOREST CONDITION
Tae TOBA, Tekeshi OHTA, Nobuaki TANAKA
- 1630-123 HS02b/10P/D-003 Poster**
CHANGES IN THE HYDROLOGICAL CYCLE AND ITS EFFECTS ON THE ENVIRONMENT IN AN INLAND RIVER BASIN OF WETSREN CHINA
Jumpei KUBOTA, Tomohiro AKIYAMA, Yusuke YAMAZAKI
- 1630-124 HS02b/10P/D-004 Poster**
SUB-SURFACE WATER CONTRIBUTION TO SURFACE WATER USING STOCHASTIC DIFFERENTIAL EQUATION
Gouldaria K. NOURBAEVA, So KAZAMA, Masaki SAWAMOTO
- 1630-125 HS02b/10P/D-005 Poster**
EVOLUTION OF THE SOIL WATER STORAGE UNDER PRESENT AND CHANGED ATMOSPHERIC CONDITIONS
Urszula SOMOROWSKA
- 1630-126 HS02b/10P/D-006 Poster**
CLIMATE, WATER AND ENERGY IN THE NORDIC COUNTRIES
Arni SNORRASON, Jona Finndis JONSDOTTIR
- 1630-127 HS02b/10P/D-007 Poster**
RAINFALL VARIABILITY AND ITS IMPACTS ON WATER RESOURCES DEVELOPMENT IN PART OF OGUN-OSUN RIVER BASIN
Olusegun ADEAGA
- 1630-128 HS02b/10P/D-008 Poster**
HEAT FLUX OBSERVATION ACROSS THE AIR/WATER INTERFACE OF A SMALL RIVER
Mohammed Aslam M.A., Akihiko KONDOH
- 1630-129 HS02b/10P/D-009 Poster**
REPRESENTATION OF COMPLEX LOW-FREQUENCY FEATURES IN A DAILY RAINFALL MODEL
Timothy Ives HARROLD, Ashish SHARMA
- 1630-130 HS02b/10P/D-010 Poster**
ASSESSMENT OF THE EFFECTS OF VEGETATION COVER CHANGES ON HYDROLOGIC REGIME
Mohammad Javad POURAGHNAEI, M. MAHDAVI, B. SAGHAFIAN
- 1630-131 HS02b/10P/D-011 Poster**
MODELING THE INFLUENCE OF VARIATION IN ATMOSPHERIC PRECIPITATION ON THE HEAT AND WATER BALANCE COMPONENTS OF DRY AREAS
Alexey Vladimirovich BABKIN
- 1630-132 HS02b/10P/D-012 Poster**
MODELING WATER QUALITY BY USING NEURAL NETWORKS
Jian-Ping SUEN, Wayland J. EHEART
- 1630-133 HS02b/10P/D-013 Poster**
TIME SCALE ANALYSIS FOR INVESTIGATING STATIONARITY OF HYDROLOGIC TIME SERIES
A. Ramachandra RAO
- 1630-134 HS02b/10P/D-014 Poster**
THE RELATION BETWEEN δ18O IN MONSOONAL PRECIPITATION AND AIR-SEA ACTIVITY, ASTRONOMICAL AND METEOROLOGICAL FACTORS
Hongxi PANG, Yuanqing HE
- 1630-135 HS02b/10P/D-015 Poster**
SCALES OF HYDROLOGICAL CHANGES IN VOLGA RIVER BASIN POSSIBLE AT CLIMATE CHANGES
Alexander GEORGIADI
- 1630-136 HS02b/10P/D-016 Poster**
THE DECREASE OF THE PRECIPITATION IN PERIODS OF THE YEAR AS A SIGN OF CLIMATIC CHANGE: CASES STUDIED IN PORTUGAL
Maria Manuela PORTELA, Antonio de Carvalho QUINTELA
- 1630-137 HS02b/10P/D-017 Poster**
CLIMATE CHANGE, GLACIER MASS BALANCE AND WATER RESOURCES
David N. COLLINS, Oliver G. MACDONALD

1630-138	HS02b/10P/D-018	Poster
THE HIGHEST ALTITUDE ICE CORES IN THE HIMALAYAS RECORD ANTHROPOGENIC POLLUTION Tandong YAO, Keqin DUAN, Shucheng XIE, Wenmian HUO, Lide TIAN		
1630-139	HS02b/10P/D-019	Poster
ATMOSPHERIC METHANE OVER THE PAST 1000 YEARS FROM A SUB-TROPICAL ICE CORE Baiqing XU, Tandong YAO, Jerome CHAPPELLAZ, Lonie THOMPSON, Ninglian WANG, Lide TIAN		
1630-140	HS02b/10P/D-020	Poster
ICE TEMPERATURE VARIATION IN PUROUGANRI ICE FIELD ON THE TIBETAN PLATEAU Jianchen PU, Tandong YAO, Ninglian WANG, Keqin DUAN, Lide TIAN		
1630-141	HS02b/10P/D-021	Poster
THE INFLUENCE OF THE SNOW COVER AND CLIMATE INTERSECTION TO EXTREMELY HYDROLOGICAL SITUATIONS IN THE SNBP MOUNTAIN ZONE (NORTH SLOPE OF CAUCASUS AS AN EXAMPLE) Lev M. KITAEV		
1630-142	HS02b/10P/D-022	Poster
RISK ASSESSMENT OF FLOOD CONTROL SYSTEM OF THE YANGTZE CENTERED ON THE THREE GORGES PROJECT Shenglian GUO, Xiangrong TIAN, Caijun WANG, Honggang ZHANG, Pan LIU		
1630-143	HS02b/10P/D-023	Poster
CROSS-CORRELATION ANALYSIS BY KENDALL'S τ BETWEEN CATEGORIZED SOI AND THE NONEXCEEDANCE PROBABILITY OF PRECIPITATION IN KOREA Young-Hoon JIN, Akira KAWAMURA, Kenji JINNO		
1630-144	HS02b/10P/D-024	Poster
ASSESSMENT OF IMPACT OF URBANISATION ON STORMWATER RUNOFF Rathnam Venkata ERVA, JAYAKUMAR V. K.		
1630-145	HS02b/10P/D-025	Poster
USE OF PHYSICALLY BASED MODEL FOR FLOOD ESTIMATION IN SMALL CATCHMENTS IN A DATA SCARCE ENVIRONMENT Jayakumar KANDATHIL VALAPPIL, Ramaseshan S.		
1630-146	HS02b/10P/D-026	Poster
PHYSICALLY-BASED MODELS FOR FLOODS MODELLING IN THE MEDITERRANEAN AREA Philippe GOURBESVILLE, Vincent GUNOT		
1630-147	HS02b/10P/D-027	Poster
FLOOD FORECASTING & MANAGEMENT IN PAKISTAN Shaukat A. AWAN		
1630-148	HS02b/10P/D-028	Poster
DETECTION OF RAINFALL VARIETY IN WESTERN TAIWAN Pao Shan YU, Chia Wen SUNG, Tao Chang YANG		
1630-149	HS02b/10P/D-029	Poster
THE INTEGRATED RISK ANALYSIS OF OVER-STANDARD FLOOD FOR FLOOD CONTROL SYSTEM Xiang ZHANG, Xinyu WANG, Guowei LAI		
1630-150	HS02b/10P/D-030	Poster
LONG-TERM CHANGE IN DAILY RAINFALL CHARACTERISTICS AT OKAYAMA Hidetaka CHIKAMORI, Akihiro NAGAI		
1630-151	HS02b/10P/D-031	Poster
HYDROLOGICAL REGIONALIZATION USING THE TCEV METHOD WITH THE SUPPORT OF A GEOGRAPHICAL INFORMATION SYSTEM Cristiane M. FINZI, Iara Righi AMRAL, Bruno Rabelo VERSIANI		
1630-152	HS02b/10P/D-032	Poster
WATER RESOURCES SUSTAINABILITY IN THE CONTEXT OF CLIMATE VARIABILITY AND INCREASING EXTREME EVENTS IN THE HIMALAYAN-INDO-GANGETIC PLAINS R. B. SINGH		
1630-153	HS02b/10P/D-033	Poster
APPROACH FOR ASSESSMENT OF RISK AND CHANGES IN EXTREME HYDROLOGICAL CHARACTERISTICS Helen (Elena) Vladislavovna LOBANOVA		
1630-154	HS02b/10P/D-034	Poster
ASSESSMENT OF THE RISKS OF EXTREME RAINS OCCURRENCE DEPENDING ON THEIR GENESIS Ionel HAIDU		

HW01 Thursday, July 10 PM

EFFECTS OF HUMAN ACTIVITIES ON HYDROLOGICAL AND BIOGEOCHEMICAL CYCLES (ICWQ)

Location: Site C, Room 26

Presiding Chairs: R.C. Sidle, N.E. Peters

1400 HW01/10P/C26-001
IMPORTANCE OF COMPARATIVE CATCHMENT STUDIES FOR UNDERSTANDING BIOGEOCHEMICAL CYCLES IN FORESTED ECOSYSTEMS: SUGGESTIONS FROM HYDROLOGICAL CONTROLS ON NITROGEN DISCHARGE
Nobuhito OHTE, Naoko TOKUCHI

1420 HW01/10P/C26-002
GEOCHEMICAL MASS BALANCES FOR WATERSHEDS OF THE USGS WATER, ENERGY, AND BIOGEOCHEMICAL BUDGETS (WEBB) PROGRAM, 1992-97
Norman E. PETERS, James B. SHANLEY, Brent T. AULENBACH, Alex E. BLUM, Donald H. CAMPBELL, Robert F. STALLARD, Joseph W. TROESTER, John F. WALKER, Arthur F. WHITE

1440 HW01/10P/C26-003
INTERSITE COMPARISON AS MEANS TO QUANTIFY THE PRIMARY PROCESSES CONTROLLING HYDROLOGICAL AND BIOGEOCHEMICAL CYCLING AT THE HILLSLOPE SCALE
Taro UCHIDA, Jeffrey J. MCDONNELL, Yuko ASANO

1500 HW01/10P/C26-004
REGIMES DE FLUX DES MATIERES SOLIDES EN SUSPENSION A L'ECHELLE DES PRINCIPAUX ECOSYSTEMES DU CAMEROUN : DIVERSITE CLIMATIQUE ET ACTIONS ANTHROPIQUES
Gaston LIENOU, Gil MAHÉ, Luc SIGHA-NKAMDJOU, Daniel SIGHOMNOU, Georges Emmanuel EKODECK, Felix TCHOUA

1520 HW01/10P/C26-005
SUBSURFACE HYDROLOGIC FLOWPATHS AND BIOGEOCHEMICAL CONTROLS OF NO₃⁻ TRANSPORT IN KAWAKAMI FORESTED HEADWATER CATCHMENT, CENTRAL JAPAN
Kasdi Subagyono, Tadashi TANAKA

1540 DISCUSSION

1600 BREAK

1620 HW01/10P/C26-006
A PHOSPHORUS TRANSPORT MODEL FOR SCENARIO-BASED EUTROPHICATION ASSESSMENT IN CATCHMENTS
Jonas OLSSON, Lotta ANDERSSON, Berit ARHEIMER, Göran LINDSTRÖM, Charlotta PERS, Jörgen ROSBERG

1640 HW01/10P/C26-007
PREDICTING THE IMPACT OF AFFORESTATION OR DEFORESTATION ON RECHARGE USING ONLY TIME SERIES SOIL MOISTURE DATA
Joseph POLLACCO

1700 HW01/10P/C26-008
THE EFFECTS OF 3-YEAR OLD ROAD NETWORK ON BIOGEOCHEMICAL RESPONSES OF A SMALL TROPICAL HEADWATER CATCHMENT TO STORM EVENTS IN PENINSULAR MALAYSIA
Junjiro N. NEGISHI, Roy C. SIDLE, Shoji NOGUCHI, Robert STANFORTH, Abdul Rahim NIK

1720 HW01/10P/C26-009
AQUATIC ECOSYSTEMS WITHIN THE CHERNOBYL NUCLEAR POWER PLANT EXCLUSION ZONE: 17 YEARS AFTER THE ACCIDENT
Dmitri I. GUDKOV, Valery V. DEREVETS, Mikhail I. KUZMENKO, Alexander B. NAZAROV

HW05-Posters Thursday, July 10 PM

GROUNDWATER RESOURCES FOR EMERGENCY SITUATIONS (ICGW)

Location: Site D

1400-155 HW05/10P/D-001 Poster
UNDERGROUND WATER STUDIES IN THE CRYSTALLINE BASEMENT AQUIFERS OF SOUTHERN NIGERIA
Omeimen E. UJUANBI, Collins Ose INEGBEDION

1400-156 HW05/10P/D-002 Poster
OCCURRENCE OF GROUNDWATER IN HARD ROCK TERRAIN
Faisal Kamal ZAIDI, Dewashish KUMAR

1400-157 HW05/10P/D-003 Poster
WATER BALANCE STUDY AND ESTIMATION OF NATURAL RECHARGE IN THE BARIND AQUIFER OF BANGLADESH
Md. Monirul ISLAM, Pintu KANUNGOE

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- 1400-158 HW05/10P/D-004 Poster**
ESTIMATING GROUNDWATER RECHARGE IN A VOLCANIC BASALTIC AQUIFER
Manta Devi NOWBUTH, Satyajay Prayagsingh MOHUNGOO
- 1400-159 HW05/10P/D-005 Poster**
HYDROLOGIC CYCLE USING RADON CONCENTRATION AS AN INDICATOR OF GROUNDWATER IN THE SMALL CATCHMENT OF THE TOHTSURU MARSHLAND, EASTERN HOKKAIDO, JAPAN
Takeo TSUCHIHARA, Satoshi NIHIRA, Satoshi ISHIDA, Masayuki IMAIZUMI
- 1400-160 HW05/10P/D-006 Poster**
MODELING GROUNDWATER REMEDIATION
Khaled Ismail HAMZA
- 1400-161 HW05/10P/D-007 Poster**
CAUSES AND EFFECTS OF ARSENIC CONTAMINATION IN DRINKING WATER IN WEST BENGAL: A PUBLIC HEALTH ISSUE
Debashis CHATTERJEE, Joydev JANA, Sudip Jyoti SAHU, Rupa BHATTACHARYYA, Bibhas NATH, Sudipto CHAKRABORTY
- 1400-162 HW05/10P/D-008 Poster**
GEOELECTRIC STUDY ON THE FACTORS CONTROLLING THE GROUNDWATER OCCURRENCES IN THE AREA NORTH OF NEKHL, CENTRAL SINAI, EGYPT
Nasser Mohamed HASSAN, Talaat A. ABDELLATIF, Mohamed Abbas MABRUK, Abdallah El-Abasery ABDELRAHMAN
- 1400-163 HW05/10P/D-009 Poster**
THE CONTRIBUTION OF SHALLOW GEOPHYSICAL INVESTIGATIONS IN DELINEATING THE HYDROGEOLOGICAL MODEL FOR THE SHALLOW AQUIFER IN WADI EL NATRUN AREA, WESTERN DESERT, EGYPT
Nasser Mohamed HASSAN, Ahmed Ragab ALLAM, Ahmed Moustafa ABDEL GAWAD, Abdallah Ibrahim AMMAR
- 1400-164 HW05/10P/D-010 Poster**
THE EVOLUTION CHARACTERISTICS OF GROUNDWATER IN SHULE RIVER BASIN AND THEIR EFFECT ON ECO-ENVIRONMENT
hanzhang BAO, tandong YAO, shiyin LIU, anxin LU
- 1400-165 HW05/10P/D-011 Poster**
GENETIC ALGORITHM BASED DESIGN FOR DRAINAGE WELL ARRANGEMENT
Takeshi SATO, Takao SUZUKI
- 1400-166 HW05/10P/D-012 Poster**
GROUNDWATER POLLUTION VULNERABILITY AND GROUNDWATER PROTECTION STRATEGY FOR THE OWERRI AREA, SOUTHEASTERN NIGERIA
Ibe Kasimir MADUABUCHI, G. I. NWANKWOR, S. O. ONYEKURU

HW07 Thursday, July 10 PM

TOWARDS A SCIENCE PROGRAM FOR PREDICTION IN UNGAUGED BASINS (ALL IAHS COMMISSIONS)

Location: Site C, Room 25

- 1400 HW07/10P/C25-001 Invited**
A PILOT STUDY FOR FLOODS IN THE WHITE-WATER RIVER BASIN, KANSAS USING A SCALING FRAMEWORK
Vijay K. GUPTA
- 1430 HW07/10P/C25-002**
SCALING ISSUES IN PUB
Daniel J.M. SCHERTZER, Shaun LOVEJOY
- 1445 HW07/10P/C25-003**
MULTIFRACTAL METHODS OF FLOOD PREDICTIONS IN THE UNGAUGED BASINS
Ioulia TCHIGUIRINSKAIA, Pierre HUBERT, Daniel SCHERTZER, Hocine BENDJOUDI, Shaun LOVEJOY
- 1500 HW07/10P/C25-004**
APPLICATION OF A RANDOM CASCADE MODEL TO TEMPORAL AND SPATIAL PRECIPITATION DATA IN JAPAN
Kunio TOMOSUGI, Yasuhisa KUZUHA, Tokuo KISHII
- 1515 HW07/10P/C25-005**
PREDICTION IN UNGAUGED BASINS - DEVELOPMENT OF A COUPLED LAND SURFACE - CLIMATOLOGICAL MODEL FOR NEW SOUTH WALES
Stewart William FRANKS
- 1530 BREAK**
- 1545 HW07/10P/C25-006**
GLOBAL ANALYSES OF SIMULATED HYDROLOGICAL BUDGET SENSITIVITY TO TEMPORAL CHARACTERISTICS OF PRECIPITATION
Yukiko HIRABAYASHI, Shinjiro KANAE, Taikan OKI, Katumi MUSIAKE

- 1600 HW07/10P/C25-007**
GLOBAL WETNESS PROJECT 2 AND PUB
Taikan OKI, Paul A. DIRMEYER
- 1615 HW07/10P/C25-008**
IMPROVED MODELING OF CATCHMENT SCALE HYDROLOGICAL PROCESSES: BRIDGING THE GAP BETWEEN LOCAL KNOWLEDGE AND THE GLOBAL PROBLEM OF UNGAUGED CATCHMENTS
Peter A. TROCH
- 1630 HW07/10P/C25-009**
MODELLING UNGAUGED CATCHMENTS USING THE REW APPROACH: DERIVATION OF REGIONAL SCALE CLOSURE RELATIONS USING HIGHLY RESOLVED, PHYSICALLY BASED SIMULATIONS
Erwin ZEHE, Murugesu SIVAPALAN
- 1645 HW07/10P/C25-010**
THE ROLE OF 'TOP-DOWN' MODELLING FOR PREDICTION IN UNGAUGED RIVER BASINS
Ian Geoffrey LITTLEWOOD, Murugesu SIVAPALAN, Tony JAKEMAN, Barry CROKE
- 1700 HW07/10P/C25-011**
INVESTIGATION OF APPLICABILITY OF A PHYSICALLY BASED MODEL OF SNOWMELT RUNOFF GENERATION TO POORLY GAUGED BASINS
Lev S. KUCHMENT
- 1715 HW07/10P/C25-012**
ACCURACY AND SENSITIVITY OF PHYSICS-BASED DISTRIBUTED MODELING USING FIRST-GUESS PARAMETER CHOICES DERIVED FROM GEOSPATIAL DATA
Baxter Ernest VIEUX, Jean E. VIEUX, Eddie KOEHLER
- 1730 HW07/10P/C25-013**
EXPLORING THE POTENTIALITY OF PREDICTION IN UNGAUGED BASINS OF A PHYSICALLY BASED HYDROLOGIC MODEL
Mario L.V. MARTINA, Ezio TODINI, Zhiyu LIU
- 1745 HW07/10P/C25-014**
A HYDROLOGICAL MODEL FOR UNGAUGED BASINS USING THE KINEMATIC WAVE APPROACH
Amithirigala W. JAYAWARDENA, Pat J.-F. YEH



MI05 Thursday, July 10 PM

LARGE SCALE PATTERNS OF ATMOSPHERIC VARIABILITY: DYNAMICS, CLIMATE IMPACTS, AND ROLE IN RECENT CLIMATE CHANGE (ICCI)

Location: Site B, Room 17

Presiding Chairs: J. Cherry, I. Mares

- 1400 MI05/10P/B17-001 Invited**
A NEW INTERPRETATION OF THE PACIFIC SOUTH AMERICAN PATTERN AND ITS ROLE IN ENSO TELECONNECTIONS
Carlos Roberto MECHOSO, Andrew W. ROBERTSON, Gabriel Cazes BOEZIO
- 1440 MI05/10P/B17-002**
DYNAMIC RELATIONSHIP BETWEEN THE ANOMALIES OF THE ZONAL AND MERIDIONAL WINDS IN THE LOWER TROPOSPHERE OVER THE WESTERN EQUATORIAL PACIFIC DURING THE EL NINO ONSET PERIOD
Kyung-On BOO, Gyu-Ho LIM
- 1500 MI05/10P/B17-003**
SEASONAL CYCLE AND EL NIÑO TERMINATION
Gabriel Andres VECCHI, D.E. HARRISON
- 1520 MI05/10P/B17-004**
1997-98 EL NINO AND THE INDIAN MONSOON: A CASE STUDY
Sooraj K. P., Rajan C. K.
- 1610 MI05/10P/B17-005**
INTER EL NINO/SOUTHERN OSCILLATION (ENSO) VARIABILITY IN THE SUBTROPICAL AMERICAS
Tercio AMBRIZZI, Victor MAGANA

1540 BREAK

- 1630 MI05/10P/B17-006**
RECENT CLIMATIC CYCLES IN ASIAN SOUTHWESTERN-MONSOON REGION AS INDICATED BY THE SPECTRUM ANALYSIS OF DIFFERENT CLIMATE DATA
Zhonglin ZHANG, Yuanqing HE, Hongxi PANG
- 1650 MI05/10P/B17-007**
WHY DOES EL NINO EVENT OCCUR IN APRIL 2002
Xiuxiang YANG, Zhen CHEN, Dianyou CHEN, Qiyuan QIAO

1710 MI05/10P/B17-008
ENSO SIGNATURE IN NORTH EUROPEAN TIME SERIES OF ICE CONDITIONS DETECTED BY SINGULAR SPECTRUM ANALYSIS AND WAVELET TRANSFORM
Svetlana JEVREJEVA, John Christopher MOORE, Aslak GRINSTED

1730 MI05/10P/B17-009
BIENNIAL AND LOWER-FREQUENCY VARIABILITY IN THE MERIDIONAL FLUCTUATION OF BAIU FRONT
Tomohiko TOMITA, Takao YOSHIKANE, Tetsuzo YASUNARI

MI05-Posters Thursday, July 10 PM

LARGE SCALE PATTERNS OF ATMOSPHERIC VARIABILITY: DYNAMICS, CLIMATE IMPACTS, AND ROLE IN RECENT CLIMATE CHANGE (ICCL)
Location: Site D

1400-167 MI05/10P/D-001 Poster
THE CONNECTIVITY OF WINTERTIME NORTH ATLANTIC OSCILLATION (NAO) WITH SUMMERTIME ATMOSPHERIC AND OCEANIC CONDITIONS
Masayo OGI, Yoshihiro TACHIBANA, Koji YAMAZAKI

1400-168 MI05/10P/D-002 Poster
TESTING OF THE NAO AND ENSO IMPACT ON THE WINTER CLIMATE ANOMALIES IN ROMANIA
Ileana MARES, Constantin MARES, Mihaela MIHAILESCU

1400-169 MI05/10P/D-004 Poster
EAST EURASIAN SNOW COVER TRIGGERING THE NORTHERN ANNULAR MODE ?
Eun-Jeong CHA

1400-170 MI05/10P/D-005 Poster
DOWNSCALING ANALYSIS FOR DAILY AND MONTHLY VALUES USING CLIM.PACT-V.1.0
Rasmus E. BENESTAD, Ole Einar TVEITO

1400-171 MI05/10P/D-006 Poster
NAO IMPACT TOWARDS THE SEASONAL EVOLUTION OF THE EURASIAN CONTINENT DURING THE NORTHERN HEMISPHERE SPRING
Masatake E. HORI

1400-172 MI05/10P/D-007 Poster
THE INFLUENCE OF THE BASIC WIND ON THE PROPAGATION OF PJ-LIKE ROSSBY WAVETRAIN
Yosuke KOSAKA

1400-173 MI05/10P/D-008 Poster
IMPACTS OF THE THERMOHALINE CIRCULATION ON ATMOSPHERIC VARIABILITY OVER THE NORTH ATLANTIC
Pascal YIOU, Pascale BRACONNOT, Masa KAGEYAMA, Yvonnick LE CLAINCHE, Olivier MARTI

1400-174 MI05/10P/D-009 Poster
ANALYSIS OF THE CLIMATOLOGY OF EXTREME WEATHER EVENTS AFFECTING BARROW, ALASKA
Elizabeth Noel CASSANO, Amanda H. LYNCH, Melinda R. KOSLOW, Casey THORNBRUGH

1400-175 MI05/10P/D-010 Poster
CLIMATE ON ABNORMAL OCCURRENCE OF WILDLANDFIRE IN SIBERIA
Keiji KIMURA, Hiroshi HAYASAKA, Koji YAMAZAKI, Masami FUKUDA

MI07-Posters Thursday, July 10 PM

CLIMATE INTERACTION AT THE LAND-ATMOSPHERE INTERFACE
Location: Site D

Convener: N.O. Jensen

1400-176 MI07/10P/D-001 Poster
COMBINED PASSIVE/ACTIVE MICROWAVE REMOTE SENSING APPROACH FOR SURFACE PARAMETER RETRIEVAL FROM TROPICAL RAINFALL MEASURING MISSION (TRMM)
Khil-Ha LEE, Emmanouil N. ANAGNOSTOU

1400-177 MI07/10P/D-002 Poster
WATER-USE EFFICIENCY OF LAND-ATMOSPHERE CARBON EXCHANGE IN THE WORLD'S MAJOR RIVER BASINS: A SIMULATION STUDY
Akihiko ITO

1400-178 MI07/10P/D-003 Poster
COMPARISON OF WATER AND HEAT BALANCE ON GRASSLAND AND FOREST IN CENTRAL YAKUTIA, EAST SIBERIA
Hironori YABUKI, Yoshiyuki ISHII, Tetsuo OHATA

1400-179 MI07/10P/D-004 Poster
NET CO2 EXCHANGE OF CANOPY AND FOREST FLOOR OF A LARCH FOREST IN NORTHERN JAPAN
Ryuichi HIRATA, Takashi HIRANO, Junichi MOGAMI, Naishen LIANG, Yasumi FUJINUMA, Nobuko SAIGUSA, Susumu YAMAMOTO

1400-180 MI07/10P/D-005 Poster
SEASONAL AND INTERANNUAL VARIATIONS IN CARBON DIOXIDE EXCHANGE AND CARBON BALANCE IN A COOL-TEMPERATE DECIDUOUS FOREST IN SAPPORO, JAPAN
Yuichiro NAKAI, Kenzo KITAMURA, Satoru SUZUKI

1400-181 MI07/10P/D-006 Poster
CO2 AND ENERGY EXCHANGE OF A TROPICAL PEAT SWAMP FOREST IN A DEVASTATED PEATLAND IN CENTARL KALIMANTAN, INDONESIA
Takashi HIRANO, Hendrik SEGHAH, Tania JUNE, Suwido LIMIN, Ryuichi HIRATA, Mitsuru OSAKI

MC03 Thursday, July 10 PM

DYNAMICS AND VARIABILITY OF MONSOON SYSTEMS (ICDM)
Location: Site A, Room 7

Presiding Chairs: K. Cook, M. Ting

1400 MC03/10P/A07-001
SUBTROPICAL MONSOONS IN EASTERN NORTH AMERICA AND EAST ASIA
Brian E. MAPES

1420 MC03/10P/A07-002
DATA ARCHIVES TO SUPPORT MONSOON SYSTEMS RESEARCH
Scot M. LOEHRER, Steven F. WILLIAMS, Jose G. MEITIN

1440 MC03/10P/A07-003
NORTH AMERICA MONSOON WINDS AS SEEN FROM QUICKSCAT
Simona BORDONI, Bjorn STEVENS, Timothy LIU

1500 BREAK

1520 MC03/10P/A07-004
VARIABILITY IN EAST PACIFIC MONSOONAL CONVECTION OBSERVED IN EPIC2001
David J. RAYMOND, G.B. RAGA, Christopher S. BREThERTON, Simon DESZOEKE, John E. MOLINARI

1540 BREAK

1600 MC03/10P/A07-005 Invited
ROLE OF LAND SURFACE PROCESSES IN MONSOON DEVELOPMENT: EVIDENCE FROM EAST ASIAN AND SOUTH AMERICAN MONSOON SIMULATIONS
Yongkang XUE, Hann-Ming JUANG, Weiping LI, Fernando DE SALES, C. Roberto MECHOSO, Stephen D. PRINCE, Ruth DEFRIES, Carlos NOBRE

1640 MC03/10P/A07-006
THE DIURNAL CYCLE OF CONVECTION OVER THE NORTHERN SOUTH CHINA SEA DURING SCSMEX
Richard H. JOHNSON, Steven L. AVES

1700 MC03/10P/A07-007
CASE STUDY OF THE BAY OF BENGAL MONSOON CONVECTION ON THE ONSET OF THE SOUTHERN CHINA SEA SUMMER MONSOON
Yimin LIU, JOHNNY C.L. CHAN, Jiangyu MAO, Guoxiong WU

1720 MC03/10P/A07-008
DIURNAL CYCLE OF MOVEMENT OF CONVECTIVE CLOUD SYSTEMS OVER SUMATERA ISLAND
Namiko SAKURAI, Fumie MURATA, Manabu D. YAMANAKA, Hiroyuki HASHIGUCHI, Syuichi MORI, Jun-Ichi HAMADA, Yudi Iman TAUHID, Tien SRIBIMAWATI, Budi SUHARDI

MC04 Thursday, July 10 PM

PLANETARY ATMOSPHERES AND THEIR EVOLUTION (ICPAE)
Location: Site B, Room 22

Convener: F.W. Taylor
Co-Convener: K. Oyama
Presiding Chair: T. Imamura

1400 MC04/10P/B22-001 Invited
VOLATILE ABUNDANCES, CLOUD STRUCTURE, AND ORIGIN OF JUPITER'S ATMOSPHERE
Sushil K. ATREYA

1430 MC04/10P/B22-002
NUMERICAL MODELING OF JUPITER'S MOIST CONVECTION LAYER: SENSITIVITY TO DEEP WATER CONTENT
Kensuke NAKAJIMA, Shin-ichi TAKEHIRO, Masaki ISHIWATARI, Yoshi-Yuki HAYASHI

WEEK
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1445	MC04/10P/B22-003	
NUMERICAL MODELLING OF EQUATORIAL JETS ON JUPITER AND SATURN Y.H. YAMAZAKI, D.R. SKEET, P.L. READ		
1500	MC04/10P/B22-004	Invited
AEROSOL STRUCTURE IN JUPITER'S POLAR STRATOSPHERE Robert A. WEST		
1530	MC04/10P/B22-005	
THE SYSTEMATIC CALCULATION OF ADIABATIC STRUCTURE OF JOVIAN PLANET ATMOSPHERES Ko-ichiro SUGIYAMA, Masatsugu ODAKA, Kiyoshi KURAMOTO, Yoshi-Yuki HAYASHI		
1545	BREAK	
1615	MC04/10P/B22-006	Invited
NEW RESULTS ON TITAN FROM GROUND-BASED OBSERVATIONS Athena COUSTENIS, Mathieu HIRTZIG, Eric GENDRON, Olivier LAI, Michel COMBES, Emmanuel LELLOUCH, Pascal RANNOU, Pierre DROSSART		
1645	MC04/10P/B22-007	
MODELS OF COMET 19P/BBORRELLY DURING THE DEEP SPACE 1 ENCOUNTER Daniel C. BOICE, R. WEGMANN		
1700	MC04/10P/B22-008	
PHYSICAL AND CHEMICAL PROCESSES IN COMETARY COMAE Daniel C. BOICE		
1715	MC04/10P/B22-009	Invited
THE EFFECTS OF ION-DRAG ON GRAVITY WAVE HEATING AND COOLING IN JUPITER'S THERMOSPHERE Michael P. HICKEY, Gerald SCHUBERT, Richard L. WALTERSCHEID		
1745	MC04/10P/B22-010	
LEADING ATMOSPHERES EVOLUTION Therese SCHNECK		

MC05 Thursday, July 10 PM

MIDDLE ATMOSPHERE SCIENCE (ICMA)
Location: Site A, Room 9

Presiding Chair: C. McLandress

1400	MC05/10P/A09-001	Invited
ON THE INFLUENCE OF THE QUASI BIENNIAL OSCILLATION IN THE UPPER EQUATORIAL STRATOSPHERE Lesley J. GRAY, Sarah SPARROW, Charlotte PASCOE		
1430	MC05/10P/A09-002	Invited
ISSUES IN STRATOSPHERE/TROPOSPHERE DYNAMICAL COUPLING Mark P. BALDWIN		
1500	MC05/10P/A09-003	Invited
STRATOSPHERIC- AND TROPOSPHERIC MODES IN THE ARCTIC OSCILLATION Kunihiro KODERA, Yuhji KURODA		
1530	MC05/10P/A09-004	
DOWNWARD PROPAGATION IN THE SOUTHERN HEMISPHERE David W.J. THOMPSON		
1550	BREAK	
1620	MC05/10P/A09-005	Invited
ON THE RELATIONSHIP BETWEEN THE WINTER STRATOSPHERE AND THE TROPOSPHERIC ARCTIC OSCILLATION Rolando R. GARCIA, Byron A. BOVILLE, Fabrizio SASSI		
1650	MC05/10P/A09-006	Invited
LARGE ENSEMBLE EXPERIMENTS ON THE STRATOSPHERE-TROPOSPHERE COUPLED VARIABILITY Shigeo YODEN		
1720	MC05/10P/A09-007	
UPWARD AND DOWNWARD INJECTION OF ROSSBY WAVE ACTIVITY ACROSS THE TROPOPAUSE: A NEW ASPECT OF TROPOSPHERE-STRATOSPHERE LINKAGE Hisashi NAKAMURA, Kazuaki NISHII		
1740	MC05/10P/A09-008	
EFFECTS OF POLAR VORTEX PERTURBATIONS ON TROPOSPHERIC WINTER CIRCULATION Kevin HAMILTON, Georgiy STENCHIKOV, Mark BALDWIN		

MC11 Thursday, July 10 PM

CLIMATE MODEL EVALUATION: HOW WELL DO MODELS REPRESENT OBSERVATIONS (ICCI)
Location: Site B, Room 19

1400	MC11/10P/B19-001	
VALIDATING AND UNDERSTANDING THE RADIATIVE AND DYNAMICAL FEEDBACKS IN THE NCAR CCSM De-Zheng SUN, Tao ZHANG, John FASULLO, Andres ROUBICEK		
1420	MC11/10P/B19-002	
EVALUATING CLOUD RESPONSE TO CLIMATE CHANGE Keith D. WILLIAMS, M.A. RINGER, C.A. SENIOR, A. SLINGO		
1440	MC11/10P/B19-003	
TROPICAL CUMULUS CONVECTION AND UPWARD PROPAGATING WAVES IN MIDDLE ATMOSPHERIC GCMS Takeshi HORINOUCI, S. PAWSON, K. SHIBATA, U. LANGEMATZ, E. MANZINI, M.A. GIORGETTA, F. SASSI, R.J. WILSON, K. HAMILTON, J. DE GRANPRÉ, A.A. SCAIFE		
1500	MC11/10P/B19-004	
EVALUATION OF MIDLATITUDE CLOUD PROPERTIES IN A WEATHER AND A CLIMATE MODEL: DEPENDENCE ON DYNAMIC REGIME AND SPATIAL RESOLUTION George TSELIODIS, Christian JAKOB		

1530 BREAK

1550	MC11/10P/B19-005	
A STATISTICAL COMPARISON OF ECMWF FORECASTED CLOUD FIELDS WITH EARTH OBSERVING SYSTEM (EOS) SATELLITE OBSERVATIONS Kuan-Man XU		
1610	MC11/10P/B19-006	
EVALUATE CLOUD SIMULATION ASSOCIATED WITH MIDLATITUDE CIRCULATION SYSTEMS IN A CLIMATE MODEL Cheng-Ta CHEN		
1630	MC11/10P/B19-007	
EVALUATION OF UPPER TROPOSPHERIC WATER VAPOR IN THE NCAR CCM3 COMMUNITY CLIMATE MODEL USING MODELED AND OBSERVED HIRS RADIANCES Michael J. IACONO, Jennifer S. DELAMERE, Eli J. MLAWER, Shepard A. CLOUGH		

MC17 Thursday, July 10 PM

PROPAGATION MECHANISMS FOR THE MADDEN-JULIAN OSCILLATION (MJO) (ICDM)
Location: Site B, Room 23

Presiding Chairs: A. Matthews, T. Nakazawa

1400	MC17/10P/B23-001	Invited
PROPAGATION OF MJO IN ASSOCIATION WITH MOISTURE SIGNALS OVER THE WESTERN HEMISPHERE AND ITS RECURRENCE MECHANISM DURING THE BOREAL WINTER Yukari N. TAKAYABU, Kazuyoshi KIKUCHI		
1430	MC17/10P/B23-002	
PROPAGATION AND THE VERTICAL STRUCTURE OF THE MADDEN-JULIAN OSCILLATION Kenneth Robert SPERBER, Julia Marie SLINGO		
1445	MC17/10P/B23-003	
THE DEVELOPMENT OF ORGANIZED CONVECTION ASSOCIATED WITH THE MADDEN-JULIAN OSCILLATION (MJO) DURING TOGA COARE Kazuyoshi KIKUCHI, Yukari N. TAKAYABU		
1500	MC17/10P/B23-004	
SURFACE CONVERGENCE AND THE MADDEN JULIAN OSCILLATION: CROSS-SPECTRAL CONFIDENCE INTERVALS FROM A PROBABILITY DISTRIBUTION FOR THE SURFACE WINDS Ralph F. MILLIFF, Timothy J. HOAR, Christopher K. WIKLE, Roland A. MADDEN		
1515	MC17/10P/B23-005	
THE MJO AND MOISTURE SENSITIVITY OF CONVECTION David J. RAYMOND		
1530	BREAK	
1600	MC17/10P/B23-006	Invited
SEASONALLY-INDEPENDENT EASTWARD PROPAGATION OF THE MJO Harry HENDON, Matthew WHEELER		
1630	MC17/10P/B23-007	
PROPAGATION OF INTRASEASONAL CONVECTIVE PERTURBATION OVER THE INDIAN OCEAN Jean Philippe DUVEL, Remy ROCA		

1645 MC17/10P/B23-008

THE SECOND ONSET OF INDIAN SUMMER MONSOON: A DIAGNOSTIC STUDY

Hamza VARIKODEN, Babu C. A., Joseph P. V.

1700 MC17/10P/B23-009

NORTHWARD DEVELOPMENT AND PROPAGATION OF TROPICAL AND SUBTROPICAL 30-60 DAY OSCILLATION OVER THE WESTERN PACIFIC

Chih-Hua TSOU, Pang-Chi HSU

1715 MC17/10P/B23-010

CONTRASTING CHARACTERISTICS BETWEEN THE NORTHWARD AND EASTWARD PROPAGATION OF THE INTRASEASONAL OSCILLATION DURING THE BOREAL SUMMER

Huang-Hsiung HSU, Chun-Hsiung WENG, Cheng-Han WU

1730 MC17/10P/B23-011

A STUDY ON THE ANNUAL CYCLE OF THE TROPICAL INTRASEASONAL OSCILLATION

Min DONG, Chidong ZHANG



IASPEI

SS04b-Posters

Thursday, July 10 PM

STRONG GROUND MOTION, EARTHQUAKE HAZARD AND RISK

Location: Site D

Presiding Chairs: X. Lili, B.V. Rastogi, K. Irikura

1400-184 SS04b/10P/D-001

Poster

ASSESMENT OF STANDARD SITE EFFECTS IN ASHIGARA VALLEY, JAPAN USING STRONG MOTION RECORDS FROM LARGE BUT REMOTE EVENTS

Tomiichi UETAKE, Kazuyoshi KUDO

1400-185 SS04b/10P/D-002

Poster

ESTIMATION OF SITE AMPLIFICATIONS IN ADAPAZARI, TURKEY, FROM MICROTREMOR AND EARTHQUAKE OBSERVATIONS

Hiroaki YAMANAKA, Masato KATO, Nobuyuki YAMADA, Umit GULERCE, Recep IYISAN, Atilla ANSAL

1400-186 SS04b/10P/D-003

Poster

SYNERGETIC EFFECTS OF SOURCE AND SITE ON THE NEAR-SOURCE STRONG GROUND MOTION AT DAMAGED AREAS IN SEDIMENTARY BASINS DURING THE KOCAELI, TURKEY EARTHQUAKES OF AUGUST 17, 1999

Tatsuo KANNO, Kazuyoshi KUDO

1400-187 SS04b/10P/D-004

Poster

3-D UNDERGROUND STRUCTURE MODEL IN KANAZAWA REGION, JAPAN

Tatsuo KANNO, Nobuyuki MORIKAWA, Shigeki SENNA, Akira NARITA, Hiroyuki FUJIWARA

1400-188 SS04b/10P/D-005

Poster

ESTIMATION OF STRONG GROUND AMPLIFICATION IN METRO MANILA

Janila R. BAUL-DEOCAMPO

1400-189 SS04b/10P/D-006

Poster

NONLINEAR BEHAVIOR OF SOILS IN THE 1995 KOBE (JAPAN) EARTHQUAKE IDENTIFIED BY VERTICAL ARRAY RECORDS

Olga V. PAVLENKO, Kojiro IRIKURA

1400-190 SS04b/10P/D-007

Poster

IDENTIFICATION OF THE NONLINEAR BEHAVIOR OF SOILS DURING THE 2000 TOTTORI (JAPAN) EARTHQUAKE

Olga V. PAVLENKO

1400-191 SS04b/10P/D-008

Poster

GROUND RESPONSE OF WEAK AND STRONG MOTIONS IN NEAR DISTANCE

Win-Gee HUANG

1400-192 SS04b/10P/D-009

Poster

EVALUATION OF DYNAMIC GROUND CHARACTERISTICS BASED ON SEISMIC RECORDS, MICROTREMOR AND GEOLOGICAL DATA

Jun TOBITA, Nobuo FUKUWA, Masaru NAKANO

1400-193 SS04b/10P/D-010

Poster

MULTI-DISCIPLINARY INFORMATION IN THE ASSESSMENT OF EARTHQUAKE HAZARD IN SAPPORO CITY

Tsutomu SASATANI, Kunikazu YOSHIDA

1400-194 SS04b/10P/D-011

Poster

DETERMINISTIC EVALUATION OF REGIONAL SEISMIC HAZARD IN THE IBERIAN PENINSULA

Mariano GARCIA-FERNANDEZ, Franco VACCARI, Maria-Jose JIMENEZ, Giuliano F. PANZA

1400-195 SS04b/10P/D-012

Poster

SEISMIC HAZARD ASSESSMENT IN RUSSIA

Valentin I. ULOMOV

1400-196 SS04b/10P/D-013

Poster

A DETERMINISTIC SEISMIC HAZARD MAP OF INDIA AND ADJACENT AREAS

Imtiyaz Ahmed PARVEZ, Franco VACCARI, Giuliano Francesco PANZA

1400-197 SS04b/10P/D-014

Poster

PROBABILISTIC SEISMIC HAZARD ASSESSMENT IN NORTHERN ALGERIA, USING SPATIALLY-SMOOTHED SEISMICITY. PART II: SPECTRAL ACCELERATION AND UNIFORM HAZARD SPECTRA.

Mohamed HAMDACHE, Jose Antonnio PELAEZ MONTILLA, Carlos LOPEZ CASADO

1400-198 SS04b/10P/D-015

Poster

NATIONAL SEISMIC HAZARD MAPPING PROJECT OF JAPAN

Hiroyuki FUJIWARA, Shin AOI, Shinichi KAWAI, Toru ISHII, Toshihiko OKUMURA, Yuzuru HAYAKAWA

1400-199 SS04b/10P/D-016

Poster

PROBABILISTIC SEISMIC HAZARD ASSESSMENT FOR LUZON, PHILIPPINES

Jane T. PUNONGBAYAN, Louis DORBATH, Jean-Philippe AVOUAC, Sylvie MARRIN

1400-200 SS04b/10P/D-017

Poster

EASTERN CANADIAN CRUSTAL DEFORMATION RATES IMPLIED BY CANADA'S FOURTH-GENERATION SEISMIC HAZARD MODEL

Stephane MAZZOTTI, Stephane MAZZOTTI, John ADAMS, Stephen HALCHUK

1400-201 SS04b/10P/D-018

Poster

FOURTH-GENERATION SEISMIC HAZARD MAPS FOR THE 2005 NATIONAL BUILDING CODE OF CANADA

John ADAMS, Stephen HALCHUK

1400-202 SS04b/10P/D-019

Poster

PROBABILISTIC SEISMIC HAZARD MAPS FOR ALBANIA

Veronika PECI, John ADAMS, Issam AL-KHOUBBI, Stephen HALCHUK

1400-203 SS04b/10P/D-020

Poster

STRONG-MOTION MAPS FOR SCENARIO EARTHQUAKES IN KANAZAWA AREA (JAPAN), AROUND MORIMOTO-TOGASHI ACTIVE FAULT

Shin AOI, Tatsuo KANNO, Nobuyuki MORIKAWA, Shigeki SENNA, Toshihiko HAYAKAWA, Hiroyuki FUJIWARA

1400-204 SS04b/10P/D-021

Poster

LONG TERM SEISMOLOGICAL HAZARD ASSESSMENT FOR A NUCLEAR WASTE REPOSITORY: DETERMINISTIC AND PROBABILISTIC APPROACH

Guenter LEYDECKER, Juergen R. KOPERA

1400-205 SS04b/10P/D-022

Poster

UNCERTAINTIES IN SEISMIC HAZARD ASSESSMENT IN THE MEGACITY OF ALGIERS (ALGERIA) USING DIFFERENT ATTENUATION MODELS

Djillali BENOUEAR

1400-206 SS04b/10P/D-023

Poster

A STUDY ON PROBABILISTIC SEISMIC HAZARD MAPS IN JAPAN

Toru ISHII, Toshihiko OKUMURA, Hiroyuki FUJIWARA, Yuzuru HAYAKAWA, Shinichi KAWAI, Shin AOI, Yutaka ISHIKAWA, Junichi MIYAKOSHI, Tomoo SAITO, Hideaki SHINOHARA

1400-207 SS04b/10P/D-024

Poster

A STUDY ON HAZARD MAPS FOR SCENARIO EARTHQUAKES IN JAPAN

Toru ISHII, Hiroyuki FUJIWARA, Shin AOI, Toshiaki SATO, Motofumi WATANABE, Toshimi SATOH, Shinichi MATSUSHIMA, Takashi HAYAKAWA, Hideaki SHINOHARA, Koji IWAMOTO, Kyoza NOZAKI

1400-208 SS04b/10P/D-025

Poster

INVESTIGATION FOR SEISMIC ZONATION OF ANCHORAGE, ALASKA

Niren N. BISWAS, Artak H. MARTIROSYAN, Utpal DUTTA, Apostolos PAPAGEORGIOU

1400-209 SS04b/10P/D-026

Poster

A C LEVEL MICROZONATION MAP OF BUCHAREST, ROMANIA

Carmen Liliana MOLDOVEANU, Carmen CIOFLAN, Mircea RADULIAN, Bogdan APOSTOL, Giuliano F. PANZA

1400-210 SS04b/10P/D-027

Poster

PROBABILISTIC SEISMIC HAZARDS PARAMETERS ESTIMATION IN GUJRAT REGION, INDIA

Jayant Nath TRIPATHI, Dileep Kumar TIWARI

1400-211 SS04b/10P/D-028

Poster

RECURRENCE PARAMETERS OF EARTHQUAKES USING METHOD OF MAXIMUM LIKELIHOOD ESTIMATION IN GUJRAT REGION, INDIA

Jayant Nath TRIPATHI, Avinash DWIVEDI

1400-212 SS04b/10P/D-029

Poster

RESEARCH OF GREAT EARTHQUAKE ACTIVITY IN WEST CHINA REGION AND ITS INFLUENCE ON SEISMIC TENDENCY IN NORTH CHINA

Chen YUWEI

1400-213 SS04b/10P/D-030

Poster

SEISMICITY AROUND CAPITAL ULAANBAATAR, MONGOLIA

Dorjsuren ANKHTSETSEG, Tundev DUGARMAA, Antoine SCHLUPP, Munkhuu ULZIIBAT, Chimed ODONBAATAR, Chimedtseren BAYARSAIKHAN, Adiya MUNKHSAIKHAN

**WEEK
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1400-214 SS04b/10P/D-031 Poster
STUDY ON POTENTIAL RISK OF LARGE EARTHQUAKE ALONG THE ANNINGHE-ZEMUHE FAULT ZONE, WESTERN SICHUAN, CHINA
Guixi YI, Xueze WEN, Jun FAN, Siwei WANG

1400-215 SS04b/10P/D-032 Poster
BACKGROUND AND PRECURSORY SEISMICITIES PRIOR TO THE MS8.1 KUNLUNSHAN EARTHQUAKE, WESTERN CHINA
Xueze WEN, Guixi YI

1400-216 SS04b/10P/D-033 Poster
JOINT SOLUTION OF SEISMICITY PARAMETERS FOR SEISMIC SOURCE ZONES THROUGH SIMULATION
Roger Mw MUSSON

1400-217 SS04b/10P/D-034 Poster
CHARACTERIZED SOURCE MODELS FOR SHALLOW INTRASLAB EARTHQUAKES IN JAPAN
Kimiyuki ASANO, Tomotaka IWATA, Kojiro IRIKURA

1400-218 SS04b/10P/D-035 Poster
IMPLICATIONS OF THE SEPTEMBER 21, 1897 HISTORICAL EARTHQUAKES TO SEISMIC AND TSUNAMI HAZARDS ASSESSMENT IN THE SULU-ZAMBOANGA AREA, SOUTHWESTERN PHILIPPINES
Maria Leonila Pascual BAUTISTA, Ishmael Clarino NARAG, Bartolome Caparas BAUTISTA, Raymundo Santiago PUNONGBAYAN

1400-219 SS04b/10P/D-036 Poster
EARTHQUAKE HISTORY IN OLD MANILA, PHILIPPINES
Maria Leonila Pascual BAUTISTA, Bartolome Caparas BAUTISTA, Ishmael Clarino NARAG, Esmeralda Longino BANGANAN, Raymundo Santiago PUNONGBAYAN

1400-220 SS04b/10P/D-037 Poster
RESPONSE CHANGES OF SOME WELLS IN THE MAINLAND SUBSURFACE FLUID MONITORING NETWORK OF CHINA, DUE TO THE SEPT 21, 1999 MS7.6 CHI-CHI EARTHQUAKE
Fuqiong HUANG, Yong CHEN, Yi TANG, Gui-ming XU, Gong-cai CHI

1400-221 SS04b/10P/D-038 Poster
EVALUATING EARTHQUAKE POTENTIAL DUE TO MAJOR ACTIVE FAULTS FOR THE DENSELY POPULATED KANTO PLAIN, CENTRAL JAPAN: AN EXAMPLE FROM THE SEKIYA FAULT
Yukari MIYASHITA, Takahiro YAMAMOTO, Yuichi SUGIYAMA, Akira SANGAWA, Koichi SHIMOKAWA

1400-222 SS04b/10P/D-039 Poster
RESTORATION OF BUILDINGS IN ARMENIA
Hrachya Sedrak MURADYAN

1400-223 SS04b/10P/D-040 Poster
NATURAL FREQUENCY AUTOMATIC VARIATION IN SEISMIC ISOLATION SYSTEM
Federico /BARTOLOZZI

1400-224 SS04b/10P/D-041 Poster
A SHORT NOTE ON THE DETERMINATION OF THE CHARACTERISTIC FREQUENCIES OF VIBRATION FOR DIFFERENT BUILDINGS IN CAIRO, EGYPT USING MICROTREMORS
Mohamed Ahmed GAMAL

1400-225 SS04b/10P/D-042 Poster
BUILDING RESPONSE MEASUREMENT USING AMBIENT VIBRATION TEST IN METROPOLITAN MANILA, PHILIPPINES
Angelito G. LANUZA, Ishmael C. NARAG, Norio ABEKI

1400-226 SS04b/10P/D-043 Poster
ACCELERATION RESPONSE SPECTRUM OF BUENOS AIRES CITY, ARGENTINE, CAUSED BY DISTANT AND LARGE MAGNITUDE EARTHQUAKES
JUAN S. CARMONA, Nora C. SABBIONE, Roberto M. PINCIROLI, Raquel L. PALAU, Luisa B. GARCIA

1400-227 SS04b/10P/D-044 Poster
THE RESEARCH ON EARTHQUAKE LOSS ESTIMATION AND COUNTERMEASURE FOR EARTHQUAKE PREVENTION AND DISASTER REDUCTION IN FUJIAN PROVINCE
Jinhai CHEN

1400-228 SS04b/10P/D-045 Poster
SCALING LAWS OF EARTHQUAKE LIVE LOSS RATES AND ITS APPLICATION TO LONG-TERM PREDICTION IN CHINA CONTINENT
Fu ZHENGXIANG

1400-229 SS04b/10P/D-046 Poster
EFFECTS OF EARTHQUAKES ON MEGACITIES
Rashmi ARORA

1400-230 SS04b/10P/D-047 Poster
EARTHQUAKE DISASTER ESTIMATION USING GEOGRAPHICAL INFORMATION SYSTEM AND STRONG GROUND MOTION SIMULATION SYSTEM BASED ON MULTI-SCALE ANALYSIS
Tsuyoshi ICHIMURA, Muneo HORI

1400-231 SS04b/10P/D-048 Poster
DEVELOPMENT OF AN AUTOMATIC SYSTEM TRANSMITTING-EARTHQUAKE ALARM INFORMATION
Shigeki HORIUCHI, Hiroaki NEGISHI, Kana ABE, Aya KAMIMURA, Yukio FUJINAWA

1400-232 SS04b/10P/D-049 Poster
SOME EFFECT OF UNCERTAINTY IN SEISMIC SOURCES MODELING ON SEISMIC HAZARD MAPPED PARAMETERS, STUDY CASE
Vladimir Petar MIHAILOV, D. DOJCINOVSKI, R. VERBERIEN, T. CAMELBEECK

1400-233 SS04b/10P/D-050 Poster
ON THE DEFORMATION CHARACTERISTICS AROUND JIASHI EARTHQUAKES AND AN APPROACH FOR EARTHQUAKE HAZARD ASSESSMENT
Anfu NIU, Jing ZHANG, Xudong YAN

SS05-Posters Thursday, July 10 PM

EDUCATION AND OUTREACH

Location: Site D

Presiding Chair: D. Jackson

1400-234 SS05/10P/D-001 Poster
GEOMAGNETIC BASE FOR AN EPISTEMOLOGY OF THE UNIVERSAL CULTURE
Teodosio Chavez CAMPOS, Chavez SUMARRIVA

SW03 Thursday, July 10 PM

LITHOSPHERIC STRUCTURE OF A SUPERCONTINENT: GONDWANA

Location: Site A, Room 4

Presiding Chairs: L. Brown, P.R. Reddy, C. Wright, M. Kanao

1400 SW03/10P/A04-001
PROTEROZOIC PRISM ARRESTS SUSPECT TERRANES: INSIGHTS INTO THE ANCIENT CORDILLERAN MARGIN OF CANADA FROM SEISMIC REFLECTION PROFILING
Ron M. CLOWES, David B. SNYDER, Fred A. COOK, Philippe ERDMER, Carol A. EVENCHICK, Arie J. VAN DER VELDEN, Kevin W. HALL

1415 SW03/10P/A04-002
VARIATIONS IN CRUSTAL THICKNESS AND MANTLE STRUCTURE ACROSS THE KAAPVAAL CRATON FROM PN AND SN ARRIVALS AND RECEIVER FUNCTIONS
Cedric WRIGHT, M. Tarzan O. KWADIBA, Eldridge M. KGASWANE, Teresia K. NGUURI

1430 SW03/10P/A04-003
SEISMICITY OF UGANDA DURING THE PAST DECADE
Fred Alex TUGUME

1445 SW03/10P/A04-004
DEEP STRUCTURE AND COLLISION TECTONICS OF PAN-AFRICAN OROGENIC BELT: LUTZOW-HOLM COMPLEX, ENDERBY LAND, EAST ANTARCTICA
Masaki KANAOKA, Masahiro ISHIKAWA

1500 SW03/10P/A04-005
WET LITHOSPHERE OF PAN-AFRICAN OROGENIC BELT
Masahiro ISHIKAWA

1515 SW03/10P/A04-006
UNUSUAL LITHOSPHERIC STRUCTURE AND EVOLUTIONARY PATTERN OF THE CRATONIC SEGMENTS OF THE SOUTH INDIAN SHIELD
Pramod Kumar AGRAWAL

1530 SW03/10P/A04-007
CHIPPING OF CRATONS AND BREAKUP ALONG MOBILE BELTS OF A SUPER CONTINENTAL ASSEMBLY
Veeraswamy KOPPIREDDI, Upendra RAVAL

1545 BREAK

1600 SW03/10P/A04-008
HOW GEOPHYSICAL SIGNATURES STRENGTHEN THE GEOLOGICAL MODELS OF SUPER CONTINENTS-INDIAN EXAMPLES
Reddy Ramachandra P.

1615 SW03/10P/A04-009
A PLATE TECTONIC MODEL FOR EVOLUTION OF SCHIST BELTS AND GRANITE PLUTONS OF DHARWAR CRATON, INDIA AND MADAGASCAR DURING 3.0-2.5 GA: INSIGHT FROM GRAVITY MODELING CONSTRAINED IN PART FROM SEISMIC STUDIES
Dinesh Chandra MISHRA, S.K. PRAJAPATI

1630 SW03/10P/A04-010
HEAT FLOW IN THE INDIAN SHIELD: INTERPRETATION FOR CRUSTAL THERMAL STRUCTURE
Roy SUKANTA, Labani RAY, Senthil Kumar P., Koti Reddy G., Srinivasan RAMASWAMIAH

1645 SW03/10P/A04-011
DEEP ELECTRICAL STRUCTURE ALONG KOLATTUR - PALANI PROFILE IN SOUTHERN GRANULITE TERRAIN, INDIA
Harinarayana T. TIRUMALACHETTY, Naganjaneyulu K.

1700 SW03/10P/A04-012
THE CAUVERY SHEAR ZONE, SOUTHERN GRANULITE TERRAIN, SOUTHERN INDIA: PALAEO- AND NEOPROTEROZOIC TECTONICS
Talari Ramakrishnaiah CHETTY, Rao Jyothi Bhaskar YERRAGUNTALA

1715 SW03/10P/A04-013
ACID MAGMATISM IN SOUTH INDIAN GRANULITE TERRAIN AND ITS IMPLICATIONS IN RECONSTRUCTION OF EASTERN GONDWANALAND
Rao Mallikharjuna JUPUDI, Rao Rama P.

1730 SW03/10P/A04-014
SHEAR WAVE STRUCTURE OF THE DHARWAR CRATON (INDIA) FROM RECEIVER FUNCTIONS
Sarkar DIPANKAR, Ravi Kumar MANGALAMPALLY, Joachim SAUL

1745 SW03/10P/A04-015
LITHOSPHERIC STRUCTURE OF EAST GONDWANALAND: REVIEW AND PREVIEW
Larry Douglas BROWN

1630 SW05/10P/A13-010
NEW ENGINEERING-GEOPHYSICAL TECHNIQUES FOR GEOPHYSICAL AND GEODYNAMIC MONITORING OF SIBERIA TERRITORY
Victor S. SELEZNEV, Victor M. SOLOVIEV, Alexander F. EMANOV

1645 SW05/10P/A13-011
SOFTWARE TOOLS FOR ANALYSIS OF SEISMICITY VARIATIONS AND ITS APPLICATION FOR THE PREDICTION OF THE LARGE KAMCHATKAN EARTHQUAKES
Vladimir V. IVANOV, Nadejda M. KRAVCHENKO

1700 SW05/10P/A13-012
DETECTION OF IMPACT CRATERS BY PROCESSING OF THE DEM DATA
Andrei G. MARCHUK, Konstantin V. SIMONOV, Sergei A. PERETOKIN, Anton L. SCHEMEL

1715 SW05/10P/A13-013
A DETECTION OF THE LATENT SPATIAL AND TEMPORAL PERIODISITIES OF NATURAL HAZARDS IN THE PACIFIC REGION
Elena V. SASSOROVA, Boris W. LEVIN

1730 SW05/10P/A13-014
RESCUE OF PAPER RECORDS: IMAGERY DATABASE OF SEISMOGRAM AND MAGNETOGRAM SCANS WITH AUTOMATED DIGITIZER
Mikhail Nikolaevich ZHIZHIN, Alexei Alexandrovich BURTSEV, Eugeny Petrovich KHARIN

1745 SW05/10P/A13-015
APPLICATION OF NON-DESTRUCTIVE GEOPHYSICAL TECHNIQUES FOR RISK EVALUATION (SANNOUR PROTECTED AREA, BENI SUEF, EGYPT)
Yehia E. ABDELHADY, Sherif M. HANAFY, Essam A. MORSY

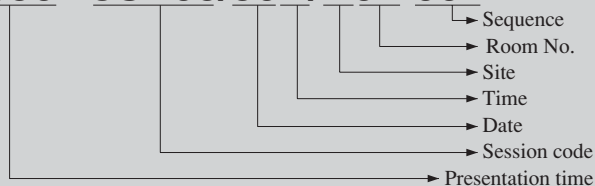
SW05		Thursday, July 10 PM	
NEW TECHNOLOGIES AND GEOPHYSICAL DATA CHALLENGES			
Location: Site A, Room 13			
		Presiding Chair: Y. Tyupkin	
1400	SW05/10P/A13-001	Invited	
PROTOTYPE OF THE LOGICAL BASIS FOR GEOLOGICAL DATA REPRESENTATION IN INTERNET Pavel Yu. PLETCHOV, Sergey V. TROUSOV, Dmitry A. VARLAMOV, Kirill A. BYCHKOV			
1420	SW05/10P/A13-002		
THE IRIS DATA MANAGEMENT CENTER: ENABLING DATA ACCESS THROUGH NEW TECHNOLOGIES Rick B. BENSON, Tim K. AHERN			
1435	SW05/10P/A13-003		
AN INTERNET-BASED COMPREHENSIVE EARTHQUAKE DATABASE AND USER SERVICE SYSTEM Zhonghe ZHAO, Chao ZHOU, Zhe ZHANG, Xinheng LUO			
1450	SW05/10P/A13-004		
CHALLENGES IN MANAGING AND DISSEMINATING DATA IN THE CANADIAN NATIONAL DATA CENTRE Jim LYONS, Nina MARKOVA, Xiuying JIN, Luc SAUMURE, Philip SHOTT, Jim BLINKHORN, Chris MAJEWSKI, Tim COTE, Khalil HAYEK			
1505	SW05/10P/A13-005		
MULTIPLE APPLICATIONS OF REAL-TIME SEISMIC INFORMATION Yukio FUJINAWA, Shigeki HORIUCHI, Hiroaki NEGISHI, Yoshinari HAYASHI, Aya KAMIMURA, Takaki IWATA, Kana ABE, Shouhei MIURA, Takumi MATSUMOTO, Hiroyuki FUJIWARA, Takashi KUNUGI			
1520	SW05/10P/A13-006		
THE INFORMATION SYSTEM OF SATELLITE GEODESY DATA IN GEODYNAMICS AND SEISMOLOGY Yuri S. TYUPKIN, Peter P. MEDVEDEV, Mikhail N. ZHIZHIN, Andrei N. POLYAKOV			
1530	SW05/10P/A13-007		
APPLICATION OF STRESS INVERSION METHOD TO GPS ARRAY DATA OF JAPANESE ISLANDS Muneo HORI, Takeshi IINUMA, Teruyuki KATO, Kenji OGUNI			
1545	SW05/10P/A13-008		
ANALYTICAL WEB GIS FOR DECISION SUPPORT IN SEISMOLOGICAL PROBLEM DOMAIN Valeri G. GITIS, Gennady L. ANDRIENKO, Natalia V. ANDRIENKO			
1600	BREAK		
1615	SW05/10P/A13-009		
INTERACTIVE INVERSE MODELLING FOR NON-LINEAR EARTH PROCESSES Chris WIJNS, Fabio BOSCHETTI, Hideyuki TAKAGI, Louis MORESI			

**WEEK
B**
THU
PM

Paper numbers

Oral Presentation

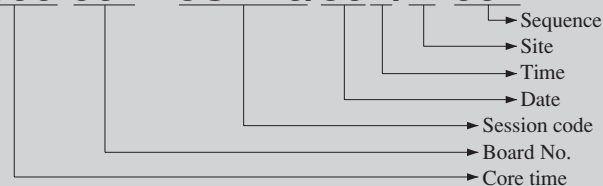
0830 JSV03/30A/A01-001



Example: 0830 JSV03/30A/A01-001 = Presentation begins at 8:30, JSV03, June 30, presentation in the morning (AM), Site A, Room 1, first paper in that session

Poster Presentation

1600-001 JSA10/30P/D-001



Example: 1600-001 JSA10/30P/D-001 = Core time begins at 16:00, Poster Board No.: 001, JSA10, June 30, core time in the afternoon (PM), Site D, first paper in that session

Friday, July 11

AM



UNION

U7 Friday, July 11 AM

HISTORY OF IUGG

Location: Site D, Room 32

Convener: A.A. Ashour

Co-Conveners: N. Fukushima, W. Torge, J. Rodda, R. List, B. Engdahl, F. Camfield

Presiding Chair: A.A. Ashour

0900 U7/11A/D32-001

THE INTERNATIONAL ASSOCIATION OF GEODESY 1862 - 1916: FROM A REGIONAL PROJECT TO AN INTERNATIONAL ORGANIZATION
Wolfgang TORGE

0930 U7/11A/D32-002

Invited

GRAVITY MEASURING INSTRUMENTS AND GRAVITY REFERENCE SYSTEMS
James E. FALLER

1000 U7/11A/D32-003

Invited

HISTORY AND FUTURE OF THE SERVICES OF THE INTERNATIONAL ASSOCIATION OF GEODESY (IAG)
Gerhard BEUTLER, Hermann DREWES, Andreas VERDUN

1030 BREAK

1100 U7/11A/D32-004

Invited

HISTORY OF IASPEI
Eric Robert ENGBAHL

1130 U7/11A/D32-005

Invited

THE INTERNATIONAL SEISMOLOGICAL ASSOCIATION (ISA) - FORERUNNER OF IASPEI
Johannes SCHWEITZER

1150 U7/11A/D32-006

THE INTRODUCTION AND EVOLUTION OF INSTRUMENTAL SEISMOLOGY IN THE PHILIPPINE ISLANDS (1865 - 1902)
Josep BATLLO

U8

Friday, July 11 AM

GEOSCIENCES: THE FUTURE (GTF)

Location: Site A, Room 2

Coordinator U. Shamir

This symposium will be a panel discussion among a group of young scientists nominated by the seven Associations. They have been charged with the task of presenting their views on the future of the geosciences in the years to come including issues, challenges, and opportunities. What are the most pressing scientific and societal problems that can be productively addressed by the geoscience community? For example, the past few decades have seen an explosion in quantitative geoscience. Our observational systems now produce data streams at temporal and spatial resolution unprecedented in human history. The computational tools available for interpretation and prediction dwarf the state-of-the-art of merely 10 years ago. Where can we go from here?



INTER-ASSOCIATION

JSA07-Posters

Friday, July 11 AM

REGIONAL CRUSTAL MODELS BASED ON SEISMIC, ELECTROMAGNETIC, POTENTIAL FIELD, AND GEOTHERMAL STUDIES (IAGA, IASPEI)

Location: Site D

Presiding Chair: J.V. Korhonen

0830-001 JSA07/11A/D-001

Poster

STRUCTURE AND GEODYNAMICS OF THE EARTH'S CRUST AND UPPER MANTLE OF JAPAN AND PHILIPPINE MARGINAL SEAS ACCORDING TO THE COMPLEX OF GEOLOGICAL AND GEOPHYSICAL DATA
Gulya GILMANOVA, Ruslan KULINICH, Lev MASLOV

0830-002 JSA07/11A/D-002

Poster

LATERAL VARIATION OF THE LOWER CRUST COMPOSITION BENEATH NORTHERN MARGIN OF SOUTH CHINA SEA
Yang WANG

0830-003 JSA07/11A/D-003

Poster

A STUDY ON THE CHARACTERISTICS OF DIFFERENCE ARROW BY THREE-DIMENSIONAL MT(MAGNETO-TELLURIC) MODELING
Junmo YANG, Seokhoon OH, Duk Kee LEE, Heuisoon LEE, Yong-Hoon YOUN

0830-004 JSA07/11A/D-004

Poster

3-D CRUSTAL VELOCITY TOMOGRAPHY IN SOUTHERN KOREAN PENINSULA
Qinghe LI

0830-005 JSA07/11A/D-005

Poster

SPECIALIZED HARDWARE-SOFTWARE COMPLEX OF GEOPHYSICAL OBSERVATORY
Sergey Eduardovich SMIRNOV

0830-006 JSA07/11A/D-006

Poster

3-DIMENSIONAL DETAILED MODEL OF THE STRUCTURE OF THE COASTAL SHELF IN THE SOUTH-EAST AQUATORY OF THE EAST-SIBERIAN SEA AND THE ROLE OF PROCESSES OF BASIFICATION IN THEIR FORMATION (INTERPRETATION OF THE GRAVITY DATA)
Yury Ya. VASHCHILLOV, Vladimir Ye. GLOTOV, Tamara P. ZIMNIKOVA, Victor V. LYUBOMUDROV, Olga V. SAKHNO, Irina P. TSYGANKOVA

0830-007 JSA07/11A/D-007

Poster

GEOTHERMAL STRUCTURE OF PRECAMBRIAN CRUST
Svet Yurievich MILANOVSKY

0830-008 JSA07/11A/D-008

Poster

GEOELECTRICAL DEEP STRUCTURE OF PRIMORYE REGION REVEALED BY MAGNETOVARIATIONAL INVESTIGATION
Sergey Stanislavovich STARJINSKY

0830-009 JSA07/11A/D-009

Poster

3-D SHALLOW CRUSTAL SHEAR VELOCITY STRUCTURE AROUND THE SOURCE REGION OF THE 1999 CHI-CHI (TAIWAN) EARTHQUAKE DERIVED FROM SHORT-PERIOD SURFACE WAVE DISPERSION DATA
Guey-Kuen YU, Guey-Kuen YU, Ruey-Der HWANG, Wen-Yen CHANG

0830-010 JSA07/11A/D-010

Poster

VELOCITY STRUCTURE OF NORTHERN PART OF ATERA FAULT SYSTEM, CENTRAL JAPAN
Makoto OKUBO, Harumi AOKI, Masazumi ONISHI

0830-011 JSA07/11A/D-011

Poster

3D CRUSTAL DENSITY STRUCTURE AND ITS GRAVITY ANOMALY OF CENTRAL TAIWAN
Jian ZHANG

P.300

IUGG2003

0830-012 JSA07/11A/D-012 Poster
CORRELATION BETWEEN STRONG EARTHQUAKE ACTIVITY AND ACTIVE CRUSTAL-BLOCK IN CHINA MAINLAND AND ITS ADJACENT REGIONS
Hongsheng MA, Guomin ZHANG, Jie LIU, Li LI

0830-013 JSA07/11A/D-013 Poster
LITHOSPHERE ELECTROMAGNETIC WINDOWS: SPATIAL DISTRIBUTION, CONSTRUCTION, PROPERTY
Yuri Buddich BASHKUEV, Valery Bazheevich KHAPTANOV, Darima Garmayeva BUYANOVA, Mikhail Georgievich DEMBELOV

0830-014 JSA07/11A/D-014 Poster
DEEP GEOPHYSICAL MODEL FOR THE AREA OF THE KURILE-KAMCHATKA AND ALEUTIAN ISLAND ARCS JUNCTION
Yuri F. MOROZ, Larisa I. GONTOVAYA

0830-015 JSA07/11A/D-015 Poster
THE RELATION BETWEEN MOVEMENTS AND DEFORMATIONS OF ACTIVE CRUSTAL-BLOCKS AND SEISMOLOGY IN EAST ASIA
Hui WANG, Guomin ZHANG, Yun WU

0830-016 JSA07/11A/D-016 Poster
GRAVITY ANOMALIES OF THE HOKKAIDO ISLAND, NORTH JAPAN
Masao KOMAZAWA, Hiroshima TOSHIO, Yasuaki MURATA, Masahiko MAKINO, Rie MORIJIRI, Kazunari NAWA

0830-017 JSA07/11A/D-017 Poster
HIGH BOUGUER ANOMALY MEASURED NEAR AND AROUND THE YAMASAKI FAULT, SOUTHWEST JAPAN
Fumiaki TAKEUCHI, Kazuo MATSUMURA, Kajuro NAKAMURA, Kunihiko WATANABE

0830-018 JSA07/11A/D-018 Poster
LOWER-CRUSTAL REFLECTOR BENEATH THE TAMBA PLATEAU, CENTRAL JAPAN
Hiroshi KATAO

0830-019 JSA07/11A/D-019 Poster
COMPLEX MODEL OF THE ONEGA REGIONAL MAGNETIC ANOMALY (RMA) IN THE FENNOSCANDIAN SHIELD
Victor A. ZEMTSOV

0830-020 JSA07/11A/D-020 Poster
AN ATTEMPT OF INTERPRETATION IN PETROLOGICAL TERMS OF THE P- AND S-WAVE MODELS ON THE SEISMIC REFRACTION LINE VRANCEA 99, ROMANIA
Victor RAILEANU, Franz HAUSER, Andrei BALA, Claus PRODEHL, Werner FIELITZ

0830-021 JSA07/11A/D-021 Poster
NEW TRANSECT ACROSS MOSCOW SEDIMENTARY BASIN: DEEP STRUCTURE AND HISTORY OF FORMATION REVEALED BY JOINT ANALYSIS OF GEOPHYSICAL DATA AND SUBSIDENCE CURVES
Robert G. BERZIN, Arsen K. SULEIMANOV, Yury N. ANDRYUSCHENKO, Nadejda G. ZAMOJNAYA, Elena A. KISELEVA, Valentin O. MIKHAILOV, Ekaterina A. PSHECHENKOVA, Sergei A. TIKHOTSKI, Dina Yu. SHUR, Mikhail V. MINTZ, Tatyana N. KHERASKOVA

0830-022 JSA07/11A/D-022 Poster
HEAT FLUX FROM LUNAR CORE AND CONTINENTAL MASCONS ON THE MOON
Alexander GUSEV, Natasha PETROVA

0830-023 JSA07/11A/D-023 Poster
GRAVITY AND MAGNETIC MEASUREMENTS ON THE BLACK SEA ROMANIAN CONTINENTAL SHELF AND THE SIGNIFICANCE OF THEIR RESULTS
Constantin Stefan SAVA

0830-024 JSA07/11A/D-024 Poster
SEISMIC ANISOTROPY AND MANTLE CREEP IN YOUNG OROGENS
Rolf MEISSNER, Irina M. ARTEMIEVA, Walter D. MOONEY

0830-025 JSA07/11A/D-025 Poster
SHEAR WAVE VELOCITY, SEISMIC ATTENUATION, AND THERMAL STRUCTURE OF THE CONTINENTAL LITHOSPHERE
Irina M. ARTEMIEVA, Magali BILLIEN, Jean-Jacques LEVEQUE, Walter D. MOONEY

0830-026 JSA07/11A/D-026 Poster
HOW THICK IS THE EARTH'S CRUST?
Walter D. MOONEY, Gary S. CHULICK, Shane T. DETWEILER

0830-027 JSA07/11A/D-027 Poster
ARE THE CRATONIC MARGINS VERTICAL? THE CASE STUDY FROM THE TESZ FROM THERMAL AND SEISMIC DATA
Irina M. ARTEMIEVA, Walter D. MOONEY, Maria A. KRASNOVA

0830-028 JSA07/11A/D-028 Poster
CORRELATION OF POTENTIAL FIELD ANOMALIES, PETROPHYSICAL PROPERTIES AND EVOLUTION OF THE FENNOSCANDIAN SHIELD
Juha Ville KORHONEN, Sven AARO, Tarmo ALL, Seppo ELO, Tapio KOISTINEN, Anatoli KULINICH, Jussi KÄÄRIÄINEN, Jan Reidar SKILBREI, Dag SOLHEIM, Rein VAHER, Ludmila ZHDANOVA

0830-029 JSA07/11A/D-029 Poster
CRUSTAL MODEL FOR SOUTHERN AND CENTRAL FINLAND (FENNOSCANDIAN SHIELD)
Koslovskaya ELENA, Juha Ville KORHONEN, Seppo ELO, Sven-Erik HJELT, Jukka YLINIEMI, Markku PIRTTIJÄRVI

0830-030 JSA07/11A/D-030 Poster
MAGNETIC PETROLOGY DATABASE FOR INTERPRETATION SATELLITE MAGNETIC ANOMALIES. STATUS OF DEVELOPMENT
Katherine A. NAZAROVA

0830-031 JSA07/11A/D-031 Poster
MAGNETIC STUDY OF ROCKS IN THE KOLA AND KRIVOY ROG DEEP BOREHOLES
Katherine A. NAZAROVA

0830-032 JSA07/11A/D-032 Poster
GRAVITY AND MAGNETIC STUDIES IN THE PORCUPINE BASIN, OFFSHORE IRELAND: INSIGHTS INTO BASIN FORMATION
Brian M. O'REILLY, Peter W. READMAN

0830-033 JSA07/11A/D-033 Poster
AN APPRAISAL OF GRAVITY SIGNATURES IN THE SOUTHERN PART OF BOMBAY OFFSHORE BASIN, WESTERN INDIA
Subba Raju Venkata LAKAMRAJU, Krishna Sri KOLLURU, Anil K. CHAUBEY, Subrahmanyam VANDRAPU, Gopal Chandra BHATTACHARYA

0830-034 JSA07/11A/D-034 Poster
2-D CRUSTAL THERMAL STRUCTURE OF THE NARMADA- SON LINEAMENT IN CENTRAL INDIA ALONG UJJAIN-MAHAN DEEP SEISMIC SOUNDING PROFILE
S. N. RAI, S.O. THIAGARAJAN, D. V. RAMANA

0830-035 JSA07/11A/D-035 Poster
ANCIENT COLLISIONAL CONTINENTAL MARGINS IN THE SOUTHERN INDIAN SHIELD: GRAVITY SIGNATURES AND DERIVED CRUSTAL TRANSECTS
Anand P. SINGH, D. C. MISHRA

0830-036 JSA07/11A/D-036 Poster
INVESTIGATION OF EFFECTS OF EXPLOSIONS ON THE OIL PIPES AT MARVAK DAM SITE IN LORESTAN REGION (IRAN)
Shayesteh MEHRABIAN, Ahmad SADIDKHOI

0830-037 JSA07/11A/D-037 Poster
ESTIMATION OF LITHOSPHERIC THICKNESS BENEATH SEISMICALLY ACTIVE REGIONS OF THE DECCAN VOLCANIC PROVINCE OF INDIA
Venkata Ramana DRONAMRAJU

0830-038 JSA07/11A/D-038 Poster
SEISMOLOGICAL CONSTRAINTS ON CRUSTAL EVOLUTION IN SOUTH INDIA
S. S. RAI, Sandeep GUPTA

0830-039 JSA07/11A/D-039 Poster
CRUSTAL STRUCTURE IN THE SIKKIM HIMALAYA FROM NEW GRAVITY AND MAGNETIC DATA
Virendra Mani TIWARI, M.B.S. VYAGRESWARA RAO, R. S. RAJESH, D. C. MISHRA

0830-040 JSA07/11A/D-040 Poster
SOME PROPERTIES OF THE MAGNETOTELLURIC ROTATION INVARIANT TENSORS
Suman DEY, Shashi Prakash SHARMA, Kalyan Kumar ROY, Someshwar SRIVASTAVA

0830-041 JSA07/11A/D-041 Poster
MAGNETIZATION MODELING OF THE MAUD RISE CRUST IN THE SOUTHWEST INDIAN OCEAN
Hyung Rae KIM, Ralph R.B. VON FRESE, Alexander V. GOLYNSKY, Patrick T. TAYLOR, Jeong Woo KIM

0830-042 JSA07/11A/D-042 Poster
GRAVITY ANOMALIES AND ASSOCIATED TECTONIC FEATURES OVER THE INDIAN PENINSULAR SHIELD AND ADJOINING OCEAN BASINS
Dinesh Chandra MISHRA, K. ARORA, V. M. TIWARI

0830-043 JSA07/11A/D-043 Poster
UPPER MANTLE HETEROGENEITY BENEATH THE CAMBAY RIFT BASIN, INDIA: INSIGHT FROM GRAVITY MODELLING
Bijendra SINGH, D. C. MISHRA

0830-044 JSA07/11A/D-044 Poster
LITHOSPHERIC STRUCTURING OF THE TUNISIAN NORTHEASTERN AFRICAN PLATE MARGIN
Mourad BÉDIR

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0830-045 JSA07/11A/D-045 Poster
GRAVITY CONSTRAINTS ON THE CRUSTAL THICKNESS OF NORTHERN AFRICA, WESTERN MEDITERRANEAN
Chokri JALLOULI, Kevin L. MICKUS

0830-046 JSA07/11A/D-046 Poster
MAGNETIC INTERPRETATION OF THE ONSHORE GEBEL EL-ZEIT AREA, GULF OF SUEZ, IN EGYPT USING INTERPRETATION TECHNIQUES
Essam Aboud ABOUD

0830-047 JSA07/11A/D-047 Poster
MAGNETIC AND GRAVITY MODELLING ON FUEGUINIAN FOLD-AND-THRUST BELT. ARGENTINE
Alejandro Alberto TASSONE, Juan Francisco VILAS, Maria Alejandra COMBA, Horacio Francisco LIPPAI, Emanuele LODOLO, Marco MENICHETTI, Jose Luis HORMAECHEA

0830-048 JSA07/11A/D-048 Poster
RELATION BETWEEN TECTONICS FEATURES AND EPICENTER SEISMIC DISTRIBUTION PATTERN (ARGENTINE CENTRAL ANDES)
Guillermo Hector RE, Maria Silvia JAPAS, Silvia Patricia BARREDO

0830-049 JSA07/11A/D-049 Poster
MEASUREMENT OF COMPARATIVE TERRESTRIAL STRESS AT XIAN AND NEARBY AREAS AND EARTHQUAKE FATALNESS STUDY
Wen-xiang WANG, Wu-yang YANG

JSP09 Friday, July 11 AM
PHYSICAL ASPECTS OF AIR-SEA INTERACTION (IAPSO, IAMAS)
Location: Site B, Room 20

Presiding Chairs: T. Liu, N. Ebuchi

0830 JSP09/11A/B20-001 Invited
OCEAN-ATMOSPHERE COUPLING OBSERVED FROM SPACE
W.Timothy LIU, Xie XIAOSU, Shang-Ping XIE

0900 JSP09/11A/B20-002
THE SECOND VERSION OF THE HAMBURG OCEAN ATMOSPHERE PARAMETERS AND FLUXES FROM SATELLITE DATA (HOAPS-II): IMPROVEMENTS AND NEW ANALYSIS CAPABILITIES
Stephan BAKAN, Karsten FENNIG, Christian KLEPP, Joerg SCHULZ

0915 JSP09/11A/B20-003
THE SURFACE ENERGY BUDGET FOR TROPICAL OCEANS FROM TRMM
Bing LIN

0930 JSP09/11A/B20-004
IMPACT OF IMPROVED FLUX ESTIMATES DERIVED FROM SCATTEROMETER WINDSON THE TROPICAL PACIFIC HEAT BUDGET
LuAnne THOMPSON, Kathryn A. KELLY, Chuanli JIANG

0945 JSP09/11A/B20-005
DIURNAL SEA SURFACE TEMPERATURE MODELING WITH SATELLITE DATA
Chelle Leigh GENTEMANN, Peter J. MINNETT, Craig J. DONLON, Gary A. WICK

1000 JSP09/11A/B20-006
THE DIFFERENCE BETWEEN INFRARED SEA SURFACE TEMPERATURE AND PASSIVE MICROWAVE SEA SURFACE TEMPERATURE AND ITS RELATIONSHIP TO LATENT HEAT FLUX
William J. EMERY, Sandra CASTRO, Gary A. WICK

1015 JSP09/11A/B20-007
ESTIMATION OF WIND-DRIVEN OCEANIC TRANSPORT IN THE SUBTROPICAL GYRE BY SCATTEROMETER WIND PRODUCT
Kunihiro AOKI

1030 BREAK

1045 JSP09/11A/B20-008 Invited
INTERCOMPARISON AND VALIDATION OF LATENT HEAT FLUX OVER THE GLOBAL OCEAN
Masahisa KUBOTA, Hiroyuki TOMITA

1115 JSP09/11A/B20-009
INTERCOMPARISON OF LATENT HEAT FLUXES OVER GLOBAL OCEANS
Shu-Hsien CHOU, Eric NELKIN, Joe ARDIZZONE, Robert M. ATLAS, Ming-Dah CHOU

1130 JSP09/11A/B20-010
UNCERTAINTIES IN MEAN AND SEASONAL STRESSES OVER THE OCEAN CAUSED BY ERRORS IN SUB-WEEKLY WINDS
Rui M. PONTE, Richard D. ROSEN

1145 JSP09/11A/B20-011
ESTIMATION OF SAMPLING ERRORS IN ALTIMETER WAVE MEASUREMENTS
Gavrikov Alexander VLADIMIROVICH, Sergey Konstantinovich GULEV, David WOOLF, Andreas STERL

1200 JSP09/11A/B20-012
VALIDATION OF QUIKSCAT OCEAN SURFACE DATA BY A SMALL ISLAND DATA
Tetsuo NAKAZAWA, Shunsuke HOSHINO

1215 JSP09/11A/B20-013
OCEAN CURRENTS INFERRED FROM DIFFERENCES BETWEEN QUIKSCAT AND TAO WINDS
Kathryn A. KELLY, Suzanne DICKINSON, Gregory C. JOHNSON

JSP10 Friday, July 11 AM
ROTATING AND STRATIFIED FLUIDS (IAPSO, IAGA, IAMAS, SEDI)
Location: Site B, Room 21

0830 JSP10/11A/B21-001
DECAYING GRID TURBULENCE IN A ROTATING STRATIFIED FLUID
Joel SOMMERIA

0900 JSP10/11A/B21-002
ENERGY DISSIPATION IN LARGE WAVENUMBER REGION OF QUASI-GEOSTROPHIC TURBULENCE
Keita IGA

0920 JSP10/11A/B21-003
KINETIC ENERGY SPECTRUM IN STRATIFIED TURBULENCE AND ITS APPLICATION TO THE ATMOSPHERIC MESOSCALES
Yuji KITAMURA, Yoshihisa MATSUDA

0940 JSP10/11A/B21-004
DYNAMICS OF THE SELF-SIMILAR SPECTRAL EVOLUTION OF QUASI-GEOSTROPHIC TURBULENCE ON AN F-PLANE AFFECTED BY HORIZONTAL DIVERGENCE
Akira MASUDA

1000 JSP10/11A/B21-005
NUMERICAL STUDY OF STRUCTURES AND SPECTRA FOR STABLY STRATIFIED TURBULENCE
Yoshi KIMURA, Jackson R. HERRING

1020 BREAK

1040 JSP10/11A/B21-006 Invited
UNBOUNDED ROTATING FLOWS WITH AND WITHOUT STABLE STRATIFICATION
Claude J. CAMBON

1110 JSP10/11A/B21-007
ON INSTABILITIES AND TURBULENCE IN STRONGLY STRATIFIED FLOWS
James J. RILEY, Kraig B. WINTERS, Stephen M. DEBRUYNKOPS

1130 JSP10/11A/B21-008
A SPECTRAL MODEL FOR PROCESS STUDIES OF DENSITY-STRATIFIED, ROTATING FLOWS
Kraig B. WINTERS, Jen A. MACKINNON, Bren MILLS

1150 JSP10/11A/B21-009
WAKES IN STRATIFIED FLUIDS: PROGRESS DURING THE LAST TWENTY YEARS
Alan BRANDT

1210 JSP10/11A/B21-010
CYCLONE-ANTICYCLONE ASYMMETRY OF GEOPHYSICAL VON KARMAN STREET
Alexandre STEGNER, Gaelle PERRET, Marie FARGE, Thierry PICHON

A IAGA

GAIL.07 Friday, July 11 AM
AERONOMY OF PLANETARY ATMOSPHERES INCLUDING COMPARATIVE ATMOSPHERES
Location: Site A, Room 12

Convener: G.M. Keating
Co-Conveners: K. Oyama, F.W. Taylor
Presiding Chair: F. Taylor

0835 GAIL.07/11A/A12-001 Invited
OBSERVATIONS OF VENUS UPPER ATMOSPHERE AND IONOSPHERE BY JAPANESE VENUS ORBITER
Takumi ABE, Takeshi IMAMURA, Shinobu MACHIDA, Masato NAKAMURA, Takayuki ONO, Koh-ichiro OYAMA, Andrew W. YAU, Ichiro YOSHIKAWA, Kiyohumi YUMOTO

0905 GAIL.07/11A/A12-002

THE IONOSPHERE OF VENUS

Hiroyuki SHINAGAWA

0925 GAIL.07/11A/A12-003

NUMERICAL MODELING OF THE INTERACTION BETWEEN THE SOLAR WIND AND VENUS IONOSPHERE

Shinobu MACHIDA

0945 GAIL.07/11A/A12-004

IMAGING OF INTERACTION REGION BETWEEN VENUSIAN IONOSPHERE AND SOLAR WIND

Atsushi YAMAZAKI, Ichiro YOSHIKAWA, Naoki TERADA, Miho KANAO, Takumi ABE, Masato NAKAMURA

1015 BREAK

1035 GAIL.07/11A/A12-005 Invited

ANALYSIS OF WAVE AND PARTICLE SIGNATURES OBSERVED IN PLASMA ESCAPE AT VENUS

Richard E. HARTLE, Joseph M. GREBOWSKY, Devrie S. INTRILIGATOR, Dana H. CRIDER

1105 GAIL.07/11A/A12-006 Invited

CLUES FAVOURABLE TO THE DRAPING MAGNETIC FIELD MODEL ON THE VENUS HOLE

Yoshihiro KAKINAMI, Koh-ichiro OYAMA, Shigeto WATANABE

1135 GAIL.07/11A/A12-007 Invited

NATURAL SUPERROTATION OF A RAREFIED SLOWLY ROTATING PLANETARY ATMOSPHERE

Peter Alexeevich BESPALOV, Olga Nikolaevna SAVINA

GAIL.09 Friday, July 11 AM

HOW DOES ENERGY FLOW FROM THE SOLAR CORONA THROUGH THE MAGNETOSPHERIC REGIONS?

Location: Site A, Room 11

Co-Conveners: J. Linker, A. Szabo, M. Lockwood

Presiding Chair: T. Watanabe

0830 GAIL.09/11A/A11-001 Invited

OBSERVING GLOBAL PROCESSES IN THE SUN-EARTH SYSTEM WITH SOLAR TERRESTRIAL RELATIONS OBSERVATORY (STEREO) AND THE INTERNATIONAL HELIOPHYSICAL YEAR

Joseph Michael DAVILA, Nat GOPALSWAMY

0900 GAIL.09/11A/A11-002

PROPAGATION AND CHARACTERISTICS OF EJECTA AT 1 AU USING HALO CME EXPANSION SPEEDS AND INTERPLANETARY OBSERVATIONS

Alisson DAL LAGO, Walter GONZALEZ, Rainer SCHWENN, AliciaLuiza CLUA DE GONZALEZ, Luis Eduardo Antunes VIEIRA, Ezequiel ECHER, Fernando Luis GUARNIERI, Laura BALMACEDA, Nelson Jorge SCHUCH

0920 GAIL.09/11A/A11-003 Invited

CME-ASSOCIATED MAGNETIC CLOUD STRUCTURES IN ASCENDING PHASE OF SOLAR CYCLE 23

Takashi WATANABE, Haruka ADACHI, Katsuhide MARUBASHI, Yuko NAMIKI

0950 GAIL.09/11A/A11-004

TRACING THE SOLAR PARTICLE CHAIN IN APRIL 2002

Daniel N. BAKER, Richard A. MEWALDT, Glenn MASON, Shri KANEKAL, Janet U. KOZYRA, David S. EVANS, Scott M. BAILEY, M.J. REINER

1010 BREAK

1040 GAIL.09/11A/A11-005 Invited

SOURCES AND ACCELERATION OF PARTICLES AT SHOCKS FROM THE SUN TO THE EARTH

Eberhard MOEBIUS, Harald KUCHARAK

1110 GAIL.09/11A/A11-006 Invited

ACCELERATED PLASMA FLOWS IN THE CUSP BOUNDARY LAYER: A CLUSTER-FAST-POLAR-SUPERDARN CONJUNCTION STUDY

Charles J FARRUGIA, E. LUND, P.E. SANDHOLT, E. MOEBIUS, S.W.H. COWLEY, J. WILD, A. BALOGH, M. DUNLOP, C. MOUKIS, L. KISTLER, H. REME

1140 GAIL.09/11A/A11-007 Invited

FLUX TRANSFER EVENTS OBSERVED BY DUAL SATELLITES: ISEE-1 AND ISEE-2

Hideaki KAWANO

1210 GAIL.09/11A/A11-008

ENERGY TRANSFER FROM THE SOLAR WIND INTO THE IONOSPHERE INSIMULATIONS OF THE EARTH MAGNETOSPHERE-IONOSPHERE SYSTEM

Lutz RASTAETTER, Maria M. KUZNETSOVA, Michael HESSE, Aaron RIDLEY, Tamas I. GOMBOSI, Joachim RAEDER

GAIL.10

Friday, July 11 AM

HOW CAN WE USE WAVES AS DIAGNOSTIC PROBES FOR SPACE WEATHER STUDIES?

Location: Site A, Room 1

Presiding Chairs: A.J. Smith, V.A. Pilipenko

0830 GAIL.10/11A/A01-001

ULF WAVES AT VERY HIGH LATITUDES

Viacheslav A. PILIPENKO, Nadezda V. YAGOVA, Olga M. CHUGUNOVA, Mark J. ENGBRETSON, Louis J. LANZEROTTI, Alan RODGER

0845 GAIL.10/11A/A01-002

CONJUGATE PHASE STUDIES OF ULF WAVES IN THE PC5 BAND NEAR THE CUSP

Yonghua LIU, Brian James FRASER, Ruiyuan LIU, Pasha PONOMERANKO

0900 GAIL.10/11A/A01-003

CONJUGATE STUDIES OF ULF WAVES DURING MAGNETICALLY ACTIVEPERIODS: FIRST RESULTS FROM SAMBA

Athanasios BOUDOURIDIS, Eftyhia ZESTA, Dave BERUBE, Mark MOLDWIN, Ricardo MONREAL MAC-MAHON, Marina STEPANOVA

0915 GAIL.10/11A/A01-004

SOME CHARACTERISTICS OF EQUATORIAL PC3,4 PULSATIONS AND THEIR SOLAR CYCLE DEPENDENCE

Madhusudhan RAO, Svs Sarma Satyanarayana SREEPATI

0930 GAIL.10/11A/A01-005

THE LOCAL TIME DEPENDENCE OF P12 DOMINANT FREQUENCY OBTAINED BY SIMULTANEOUS OBSERVATION AT 5 LOW-LATITUDE STATIONS

DeSheng HAN, Toshihiko IYEMORI, Yufen GAO, Masahito NOSE, Yasuharu SANOO, Fuxi YANG, Wansheng LI

0945 GAIL.10/11A/A01-006

MAGNETOSPHERE-IONOSPHERE CURRENT SYSTEM RESPONSIBLE FOR THE GROUND MAGNETIC PERTURBATIONS DURING THE GEOMAGNETIC SUDDEN COMMENCEMENT

Takashi KIKUCHI

1000 GAIL.10/11A/A01-007

HOW MUCH ENERGY IS CONVERTED INTO ALFVEN WAVES FROM COMPRESSIONAL DISTURBANCE?

Dong-Hun LEE, Kihong KIM

1015 GAIL.10/11A/A01-008

SLOW MHD WAVES AS THE PRIMARY CAUSE OF MAGNETOSPHERE-IONOSPHERE DISTURBANCES

Takesi IJIMA, Manabu SHINOHARA, Aoi NAKAMIZO

1030 GAIL.10/11A/A01-009

SURFACE WAVE MODEL OF THE MAGNETOSPHERIC RESONANCES.

Petko I. NENOVSKI, Umberto VILLANTE, Patrizia FRANCIA, Massimo VELLANTE, Alexander BOCHEV

1045 GAIL.10/11A/A01-010

MAGNETOSPHERE-IONOSPHERE COUPLING BY ALFVÉN WAVES AT MID- AND LOW-LATITUDES

Robert L. LYSAK

1100 GAIL.10/11A/A01-011

FLUCTUATION ANALYSIS OF THE IONOSPHERIC AND GEOMAGNETIC PLASMAS, USING VLF SIGNALS

Tomoya SAKAI, Shin SHIMAKURA, Kenji OHTA

1115 GAIL.10/11A/A01-012

MAGNETOSPHERIC VLF HISS OBSERVATIONS BY ALOW-ALTITUDE POLAR ORBITER FOR SPACE WEATHER STUDIES

Tadanori ONDOH

1130 GAIL.10/11A/A01-013

THE TEMPORAL EVOLUTION OF SUBSTORM ENHANCED WHISTLER-MODE WAVES; THE RELATIONSHIP BETWEEN SPACE BASED OBSERVATIONS, GROUND BASED OBSERVATIONS AND ENERGETIC ELECTRONS.

Gary A. ABEL, Andy J. SMITH, Nigel P. MEREDITH, Roger R. ANDERSON

1145 GAIL.10/11A/A01-014

ELECTROSTATIC ELECTRON CYCLOTRON HARMONIC WAVES OBSERVED IN THE EQUATORIAL REGION OF THE PLASMASPHERE

Takayuki ONO, Hiroshi OYA

GAIL.10-Posters

Friday, July 11 AM

HOW CAN WE USE WAVES AS DIAGNOSTIC PROBES FOR SPACE WEATHER STUDIES?

Location: Site D

WEEK

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0830-075 GAIII.10/11A/D-001 Poster
PC1 BURSTS IN THE POLAR CAP AS AN INDICATOR OF THE DAYTIME RECONNECTION
Vladimir V. SAFARGALEEV, Anna V. SEREBRYANSKAYA, Elena V. PCHELKINA

0830-076 GAIII.10/11A/D-002 Poster
THE PLASMAPAUSE DETECTION BY MULTIPLE GROUND MAGNETIC FIELD OBSERVATIONS AT DIFFERENT LOCAL TIMES
Shuji ABE, Kiyohumi YUMOTO, Hideaki KAWANO, Akimasa YOSHIKAWA, Yuki OBANA, Stepan I. SOLOVYEV, Dmitry G. BAISHEV, John V. OLSON, E.W. WORTHINGTON

0830-077 GAIII.10/11A/D-003 Poster
ON THE FIELD-LINE RESONANCE POLARIZATION
Petko I. NENOVSKI, Massimo VELLANTE

0830-078 GAIII.10/11A/D-004 Poster
ULF SIGNATURE OF FIELD-ALIGNED CURRENTS IN THE DUSK MAGNETOSPHERE BY INTERBALL-AU AND POLAR
Alexander Z. BOCHEV, Petko I. NENOVSKI

0830-079 GAIII.10/11A/D-005 Poster
SEVERAL FACTORS OF PC 3-5 AMPLITUDES OBTAINED BY THE COORDINATED CPMN STATIONS
Yuki OBANA, Akimasa YOSHIKAWA, Ray J. MORRIS, Brian J. FRASER, Stepan I. SOLOVYEV, Kiyohumi YUMOTO

0830-080 GAIII.10/11A/D-006 Poster
FIELD-LINE RESONANCES TRIGGERED BY SSC ONSETS
Harri E. LAAKSO, A. MASSON, K.-H. GLASSMEIER, M.J. ENGBRETSON

0830-081 GAIII.10/11A/D-007 Poster
MONITORING OF THE PLASMA DENSITY IN THE EARTH'S PLASMASPHERE DURING MAGNETIC STORMS BY USING MULTIPLE GROUND OBSERVATIONS (L~1.3)
Satoko TAKASAKI, Hideaki KAWANO, Yoshimasa TANAKA, Akimasa YOSHIKAWA, Masahiro SETO, Masahide IIZIMA, Kiyohumi YUMOTO

0830-082 GAIII.10/11A/D-008 Poster
DEDUCING PROPERTIES OF THE MAGNETOSPHERE USING HIGH LATITUDE PC 3-4 PULSATIONS
Fred W. MENK, Timothy A. HOWARD

0830-083 GAIII.10/11A/D-009 Poster
THE DEPENDENCE OF SPATIAL STRUCTURES OF PC 3 PULSATIONS ON THE SOLAR WIND PARAMETERS AND GEOMAGNETIC INDICES
Yoshimasa TANAKA, Kiyohumi YUMOTO, the CPMN Group

0830-084 GAIII.10/11A/D-010 Poster
PROPAGATION OF ULF WAVES THROUGH THE IONOSPHERE IN THE PRESENCE OF OBLIQUE MAGNETIC FIELDS
Colin WATERS, Murray SCIFFER, Fred MENK

0830-085 GAIII.10/11A/D-011 Poster
FREQUENCY ESTIMATION OF IMPULSIVE PC3 MAGNETIC PULSATIONS ON THE BASIS OF MODIFIED MEM
Yoshihiro HIGUCHI

0830-086 GAIII.10/11A/D-012 Poster
DYNAMIC SPECTRA AND WAVELET STRUCTURE OF ULF WAVES IN THE MAGNETIC STORM OF JULY 15, 2000
Olga Vasilievna KOZYREVA, Natalia Georgievna KLEIMENOVA, Jean-Jacques SCHOTT

0830-087 GAIII.10/11A/D-013 Poster
PI2 MAGNETIC PULSATION AT LOW LATITUDES
Yu-fen GAO, Gui-ming LE

0830-088 GAIII.10/11A/D-014 Poster
DETERMINATION OF ONSET TIMES OF LOW-LATITUDE PI2 MAGNETIC PULSATIONS
Keiko FUKUYAMA, Tomoyuki HIGUCHI, Teiji UOZUMI, Hideaki KAWANO, Kiyohumi YUMOTO

0830-089 GAIII.10/11A/D-015 Poster
RELATIONSHIPS BETWEEN NEAR-EARTH TAIL SUBSTORM SIGNATURES AND GROUND PI 2S ONSETS
Tohru SAKURAI

0830-090 GAIII.10/11A/D-016 Poster
CORRELATIONS BETWEEN HIGH- AND LOW-LATITUDE PI 2'S AS A FUNCTION OF LONGITUDINAL DISTANCE RELATIVE TO THE AURORAL BREAKUP REGION
Teiji UOZUMI, Kiyohumi YUMOTO, Hideaki KAWANO, Akimasa YOSHIKAWA, S. OHTANI, S.I. SOLOVYEV, E.F. VERSHININ, K. LIOU, C.-I. MENG

0830-091 GAIII.10/11A/D-017 Poster
LONGITUDINAL STRUCTURE OF LOW-LATITUDE PI2 PULSATIONS
Masahito NOSE, K. LIOU, P.R. SUTCLIFFE

0830-092 GAIII.10/11A/D-018 Poster
ARE PI 2 MAGNETIC PULSATIONS A GOOD INDICATOR OF SUBSTORM ONSETS ?
Kiyohumi YUMOTO, Teiji UOZUMI, Rui YAMAGUCHI, Hideaki KAWANO, Kan LIOU, Ching -I MENG

0830-093 GAIII.10/11A/D-019 Poster
A NUMERICAL SIMULATION OF PI 2 PULSATIONS IN MIDDLE- AND LOW-LATITUDES
Shigeru FUJITA, Masahiro ITONAGA

0830-094 GAIII.10/11A/D-020 Poster
PROPAGATION STRUCTURE OF PI2 PULSATIONS DURING SMALL BAYS
Yuko SEKI, Rui YAMAGUCHI, Teiji UOZUMI, Hideaki KAWANO, Akimasa YOSHIKAWA, Shin-Ichi OHTANI, Masahiro ITONAGA, Kiyohumi YUMOTO, the CPMN Group

0830-095 GAIII.10/11A/D-021 Poster
A STATISTICS STUDY OF MAGNETOSPHERIC RESPONSE TIMES DURING QUASI-PERIODIC SOLAR WIND VARIATIONS
Kei KAMIKAWA, Kiyohumi YUMOTO, Kentaro KITAMURA, the CPMN Group

0830-096 GAIII.10/11A/D-022 Poster
THE SEVEN PROJECT: TOWARDS STATISTICAL AND EMPIRICAL MODELS OF THE DISTRIBUTIONS OF VLF WAVES
Fabien DARROUZET, Walther N. SPJELDVIK, Joseph LEMAIRE, Georg GUSTAFSSON, Pierrette M.E. DÉCRÉAU

0830-097 GAIII.10/11A/D-023 Poster
COSMIC RADIO NOISE ABSORPTION AND VLF BURSTS CAUSED BY THE SOLAR WIND SHOCK
Alefina OSEPIAN, Sheila Catherine KIRKWOOD

0830-098 GAIII.10/11A/D-024 Poster
GENERATION MECHANISM OF THE FUNDAMENTAL AND THE SECOND HARMONIC TERRESTRIAL HECTOMETRIC RADIATION
Masahide IIZIMA, Hiroshi OYA, Akira HOSOTANI, Atsushi KUMAMOTO, Takayuki ONO



IAHS

HS02

Friday, July 11 AM

WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)

Location: Site C, Room 24

Presiding Chair: Y. Sakura

0830 HS02/11A/C24-001
ENVIRONMENTAL FLOW REQUIREMENTS IN WATER RESOURCE PLANNING AND OPERATION
Denis HUGHES

0845 HS02/11A/C24-002
INTEGRATED WATER RESOURCES MANAGEMENT UNDER COMPLEX HYDRO-POLITICAL CONDITIONS- THE PALESTINIAN CASE STUDY
Ayman Ismail RABI, Natasha George CARMi, Abdellatif KHALED

0900 HS02/11A/C24-003
RESTORATION OF URBAN WATER CYCLE WITH URBAN RENEWAL
Srikantha HERATH, Katumi MUSIAKE, Sadayuki HIRONAKA

0915 HS02/11A/C24-004
METHOD OF SATELLITE MONITORING OF RESERVOIR STORAGES FOR EFFICIENT REGIONAL WATER MANAGEMENT
Jun MAGOME, Hiroshi ISHIDAIRA, Kuniyoshi TAKEUCHI

0930 HS02/11A/C24-005
INTERMITTENT UTILIZATION OF WATER RESOURCES IN AN OASIS REGION FOR THE LAST 2000 YEARS
Masayoshi NAKAWO

0945 HS02/11A/C24-006
EFFECTS OF CLIMATE CHANGE ON IRRIGATION ACTIVITIES: A CASE STUDY OF BENIN-OWENA RIVER BASIN IRRIGATION PROJECTS
Catherine Imhangulaya IKHILE, George Ubuihoro IKHILE

1000 HS02/11A/C24-007
IMPACT OF GURARA RIVER (NIGERIA) INTERBASIN WATER TRANSFER SCHEME ON RIVER KADUNA AT SHIRORO DAM
Onemayin David JIMOH, O. S. AYODEJI

1015

BREAK

HS02-Oral-Posters Friday, July 11 AM

WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)

Location: Site C, Room 24

Presiding Chair: Y. Sakura

- 1045 HS02/11A/C24-001OP Oral-Poster**
MAXIMUM OVERLAND FLOW IN RIVER BASIN AND LANDUSE
Elena ASABINA
- 1049 HS02/11A/C24-002OP Oral-Poster**
ARTIFICIAL NEURAL NETWORK MODELING OF THE RAINFALL-RUNOFF EXTREME EVENTS
Dionysia PANAGOULIA, Nikos MARATOS
- 1053 HS02/11A/C24-003OP Oral-Poster**
DETERMINATION OF INSTANTANEOUS UNIT HYDROGRAPH WITH CLARK'S TECHNIQUE IN GIS
Musa YILMAZ, Nurunnisa USUL
- 1057 HS02/11A/C24-004OP Oral-Poster**
ARIDIFICATION AND THE INCREASE OF FLOOD EVENTS IN CENTRAL EUROPE
János RAKONCZAI, Katalin BÓDIS, Ferenc KOVÁCS
- 1101 HS02/11A/C24-005OP Oral-Poster**
DEVELOPMENT OF NEW TECHNOLOGIES OF FLOOD SIMULATION AND FORECASTING IN REAL-TIME
Sandra Gabriela GARCIA
- 1105 HS02/11A/C24-006OP Oral-Poster**
SPATIAL-TEMPORAL APPROPRIATENESSES OF EXTREME PROCESSES FORMATION IN RIVERS SYSTEMS OF REGIONS WITH SHARP CONTINENTAL CLIMATE
Leonid M. KORYTNYI, N. V. KICHIGINA
- 1109 HS02/11A/C24-007OP Oral-Poster**
DEVELOPMENT OF WATERSHED RAINFALL-RUNOFF MODEL BASED ON THE PARTIAL CONTRIBUTING AREA CONCEPT
Chin-Hsin CHANG
- 1113 HS02/11A/C24-008OP Oral-Poster**
REAL TIME FLOOD FORECASTING: A CASE STUDY OF THE JHELM RIVER, PAKISTAN
Sajjad AHMAD
- 1117 HS02/11A/C24-009OP Oral-Poster**
REVISITING 1992 FLOODS IN PAKISTAN: OPERATION OF MANGLA RESERVOIR
Sajjad AHMAD
- 1121 HS02/11A/C24-010OP Oral-Poster**
STOCHASTIC MODEL OF THE RUNOFF FLUCTUATIONS OF THE RIVERS WITH A FLOOD FLOW REGIME
Andrei V. KHRISTOFOROV, Taras V. SAMBORSKY
- 1125 HS02/11A/C24-011OP Oral-Poster**
IMPACT OF POPULATION GROWTH AND THE CLIMATE CHANGE ON THE QUANTITY OF WATER RESOURCES IN NORTH EASTERN REGION OF INDIA.
Uttam C. SHARMA
- 1129 HS02/11A/C24-012OP Oral-Poster**
MANAGEMENT OF WATER RESOURCES IN KANDI (DROUGHT PRONE) ZONE OF JAMMU PROVINCE FOR HIGHER CROP PRODUCTIVITY
Vikas SHARMA
- 1133 HS02/11A/C24-013OP Oral-Poster**
WATER RESOURCES MANAGEMENT AND PLANNING; THE NEED FOR MULTIDISCIPLINARY MODELLING APPROACHES
Islam Hamza ABOU EL-MAGD, Trevor TANTON
- 1137 HS02/11A/C24-014OP Oral-Poster**
THE SYSTEM FOR ECOLOGICAL AND ECONOMICAL ASSESSMENT OF USE, PRESERVATION AND RESTORATION OF URBAN WATER BODIES: ST. PETERSBURG AS A CASE STUDY
Sergey A. KONDRATYEV
- 1141 HS02/11A/C24-015OP Oral-Poster**
OPTIMAL PRESSURE CONTROL IN SUPERVISORY WATER DISTRIBUTION NETWORK USING SHUFFLED COMPLEX EVOLUTION ALGORITHM
Haytham AWAD, Akira KAWAMURA, Kenji JINNO
- 1145 HS02/11A/C24-016OP Oral-Poster**
BANK FILTRATION SYSTEMS AS COMBINED TECHNOLOGY FOR GROUNDWATER AND SURFACE WATER
Ekkehard O. HOLZBECHER
- 1149 HS02/11A/C24-017OP Oral-Poster**
REDUCING SHALLOW - WELL CONTAMINATION IN UGANDA
James MWAMI

- 1153 HS02/11A/C24-018OP Oral-Poster**
WATER MANAGEMENT ON MEDITERRANEAN ISLANDS UNDER CHANGING CONDITIONS
Manfred A. LANGE
- 1157 HS02/11A/C24-019OP Oral-Poster**
RELIABILITY ANALYSIS OF THE INTEGRATED MANAGEMENT OF WATER QUANTITY AND WATER QUALITY FOR WATER TRANSFER SYSTEM
Xiang ZHANG, Jun XIA
- 1201 HS02/11A/C24-020OP Oral-Poster**
LATERITE - LOW COST REMEDIAL OPTION FOR HIGH ARSENIC GROUNDWATER
Rupa BHATTACHARYYA, Debashis CHATTERJEE, Yoshio TAKAHASHI
- 1205 HS02/11A/C24-021OP Oral-Poster**
LARGE DIAMETER WELLS AS A SOLUTION AGAINST THE RISK OF CONTAMINATION IN THE SEMI-ARID WORLD USING THE FILTER FACTOR CONCEPT
Sarima K. SEEMANAPALLI, Soniaeli P. CARVALHO, Silvestre L. NOBREGA, Alex M. NEYVES
- 1209 HS02/11A/C24-022OP Oral-Poster**
REDUCTION OF RISK OF AGROTOXICS BY DRAINAGE IN AGRICULTURAL LANDS USING INTERCEPTOR DRAINS
Sarima K. SEEMANAPALLI
- 1213 HS02/11A/C24-023OP Oral-Poster**
WATER QUALITY MANAGEMENT FOR CONJUNCTIVE USE OF GROUND WATER AND WASTEWATER FROM AQUACULTURE : AN INDIAN OVERVIEW
Lalitkumar Pandit CHAUDHARI

1217 DISCUSSION

HW02 Friday, July 11 AM

STREAM TEMPERATURE CHANGES AND EFFECTS (ICWQ)

Location: Site C, Room 31

Convener: B. Webb
Presiding Chair: B. Webb

- 0835 HW02/11A/C31-001**
SEASONAL VARIATION IN RIVER HEAT BUDGETS
Bruce W. WEBB, Yu ZHANG
- 0900 HW02/11A/C31-002**
HEAT EXCHANGES AND TEMPERATURES WITHIN A SALMON SPAWNING STREAM IN THE CAIRNGORMS, SCOTLAND
David M. HANNAH, Iain A. MALCOLM, Chris SOULSBY, Alan F. YOUNGSON
- 0925 HW02/11A/C31-003**
STREAM TEMPERATURE AS AN INDICATOR OF HYDROLOGICAL CIRCULATION IN A STEEP FORESTED MOUNTAIN BASIN
Andrew C. WHITAKER, Hironobu SUGIYAMA
- 0950 HW02/11A/C31-004**
SPATIAL AND TEMPORAL STREAM TEMPERATURE DYNAMICS WITHIN AN ALPINE CATCHMENT: IMPLICATIONS FOR BENTHIC COMMUNITIES
Lee E. BROWN, David M. HANNAH, Alexander M. MILNER
- 1045 HW02/11A/C31-005**
WATER-AIR TEMPERATURE RELATIONSHIPS AND THE ROLE OF FLOW
Bruce W. WEBB, Paul D. CLACK, Des E. WALLING
- 1110 HW02/11A/C31-006**
EFFECTS OF RIPARIAN MANAGEMENT ON STREAM TEMPERATURE IN HEADWATER STREAMS, COASTAL BRITISH COLUMBIA, CANADA
Takashi GOMI, R. Dan MOORE, Amod S. DHAKAL
- 1135 HW02/11A/C31-007**
EVALUATION OF POTENTIAL ENERGY LOSS WITH DAM CONSTRUCTION
Koshi YOSHIDA, Hajime TANJI
- 1200 HW02/11A/C31-008**
TEMPERATURE-OXYGEN REGIMES OF SOME TROPICAL STREAMS IN SOUTH-WESTERN NIGERIA
Catherine Imhagulaya IKHILE, Stella Maris AKHIONBARE

HW02-Posters Friday, July 11 AM

STREAM TEMPERATURE CHANGES AND EFFECTS (ICWQ)

Location: Site D

- 0830-133 HW02/11A/D-001 Poster**
WATER TEMPERATURE VARIATION IN AUSTRIAN RIVERS DURING THE TWENTIETH CENTURY
Bruce W. WEBB, Franz NOBILIS

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0830-134 HW02/11A/D-002 Poster
 EXPOSED RIVERINE SEDIMENT PATCHES: ENERGY FLUXES AND THERMAL PROFILES
 David M. HANNAH

HW03 Friday, July 11 AM

QUALITY ASSURANCE IN HYDROLOGICAL RESEARCH (ICWQ, ICSW, ICGW, ICWR, ICASVR, ICCE)
 Location: Site C, Room 30

Convener: V. Krysanova

Presiding Chairs: F.R. Naef, V. Krysanova

0830 HW03/11A/C30-001
 QUALITY ASSURANCE IN ENVIRONMENTAL MODELS AND DATA: SCIENTIFIC AND ORGANIZATIONAL ASPECTS
 Jacques JANSEN, Harm HOUWELING, Jünt HALBERTSMA, Michiel JANSEN, Hans HEESTERBEEK

0850 HW03/11A/C30-002
 QUALITY ASSURANCE IN CATCHMENT AND RIVER BASIN MODELLING USING KNOWLEDGE ENGINEERING TECHNIQUES
 Huub SCHOLTEN, Jens Christian REFSGAARD, George ZOMPANAKIS, Ayalew KASSAHUN, Costas GAVARDINAS, Hans Jørgen HENRIKSEN, Bill HARRAR

0910 HW03/11A/C30-003
 UNCERTAINTY ANALYSIS AND MULTI-CRITERIAL VALIDATION OF REGIONAL-SCALE ECOHYDROLOGICAL MODELS
 Valentina KRYSANOVA

0930 HW03/11A/C30-004
 THE IMPROVEMENT OF A DISTRIBUTED HYDROLOGICAL MODEL BY USING CIP METHOD
 Yasuhiro ISHIMINE, Yasuhisa KUZUHA, Tokuo KISHII, Tomonori MATSUURA

0950 HW03/11A/C30-005
 VALIDATION OF THE MODEL HBV TAKING INTO ACCOUNT THE UNCERTAINTY DUE TO THE SPATIAL INTERPOLATION OF THE RAINFALL
 Radhia MCHIRGUI, Zoubeida BARGAOU, Andreas BARDOSSY

1010 BREAK

1030 HW03/11A/C30-006
 WHY IS QUALITY ASSURANCE IN RAINFALL RUNOFF MODELLING SO DIFFICULT?
 Feli Robert NAEF

1050 HW03/11A/C30-007
 APPLICATION OF FUZZY MULTI-OBJECTIVE FUNCTION ON HYDROLOGICAL MODEL CALIBRATION
 Tao-Chang YANG, Pao-Shan YU, Chen-Min KUO

1110 HW03/11A/C30-008
 IDENTIFICATION OF THE HYDROLOGICAL PARAMETERS AS AN ILLUSTRATION WAY OF THE SEMI-EMPIRICAL MODEL DEVELOPMENT
 Valentina A. KHAYDAROVA, Natalia V. PENKOVA, Evgenia L. PAK

1130 HW03/11A/C30-009
 ALEAS DU RESEAU PLUVIOMETRIQUE DU BASSIN VERSANT DU TESSAETUDE DE LA VARIABILITE DU CHAMP PLUVIOMETRIQUE PAR KRIGEAGE ET VALIDATION CROISEE PLUIE-DEBIT
 Radhia MCHIRGUI, Zoubeida BARGAOU, Andreas BARDOSSY

1150 HW03/11A/C30-010
 ANALOGOUS SIMULATION THE ANNUAL RUNOFF OF HEIHE RIVER (CHINA, QILIANSHAN)
 Vladimir G. KONOVALOV, Masayoshi NAKAWO

HW03-Posters Friday, July 11 AM

QUALITY ASSURANCE IN HYDROLOGICAL RESEARCH (ICWQ, ICSW, ICGW, ICWR, ICASVR, ICCE)
 Location: Site D

0830-135 HW03/11A/D-001 Poster
 PROBABILITY-STATISTICAL ANALYSIS DYNAMICS OF POLLUTION THE BELAYA RIVER
 Tatyana FASHCHEVSKAYA, Natalya KRASNOGORSKA

0830-136 HW03/11A/D-002 Poster
 MONITORING THE GARONA RIVER WATER TABLE BY MICROGRAVIMETRY AND GPS
 Jean-Pierre BARRIOT, Michel SARRAILH, Thierry FAYARD

HW07 Friday, July 11 AM

TOWARDS A SCIENCE PROGRAM FOR PREDICTION IN UNGAUGED BASINS (ALL IAHS COMMISSIONS)
 Location: Site C, Room 25

0830 HW07/11A/C25-001 Invited
 NESTED CATCHMENT EXPERIMENTS: CONSTRAINING THE HYDROLOGIC UNCERTAINTY IN THE PREDICTION OF UNGAUGED BASINS
 Eduardo M. MENDIONDO

0900 HW07/11A/C25-002
 LESSONS LEARNT FROM TRACER AND CATCHMENT MODELLING STUDIES IN MESO-SCALE BASINS
 Stefan UHLENBROOK, Nils TILCH, Jens DIDSZUN, Bettina OTT

0915 HW07/11A/C25-003
 NEEDS AND CONSTRAINTS FOR HYDROLOGICAL BEHAVIOUR OF UNGAUGED BASINS: AN EXPERIENCE IN SWISS AND LUXEMBOURG CATCHMENTS
 Andre MUSY, Benoit HINGRAY, Markus NIGGLI

0930 HW07/11A/C25-004
 A SCIENTIFIC FRAMEWORK FOR MODEL EVALUATION WITHIN PUB
 Thorsten WAGENER, Hoshin V. GUPTA, Soroosh SOROOSHIAN

0945 HW07/11A/C25-005
 MOPEX'S LINK TO PUB
 John SCHAAKE, Qingyun DUAN

1000 HW07/11A/C25-006
 ON ENVIRONMENTAL MODELS OF EVERYWHERE AS A TEMPLATE FOR PUB
 Keith J. BEVEN

1015 HW07/11A/C25-007
 ANALYSIS OF UNCERTAINTY IN FLOW PREDICTION FOR UNGAGED CATCHMENTS
 Manfred Walter OSTROWSKI

1030 BREAK

1045 HW07/11A/C25-008
 COLD REGIONS HYDROLOGY, UNCERTAINTY AND PREDICTION WITH MINIMAL INFORMATION
 John W. POMEROY, Lev S. KUCHMENT, Alexander N. GELFAN, Raoul J. GRANGER, Donald M. GRAY, Newell R. HEDSTROM

1100 HW07/11A/C25-009
 WATER-QUALITY PREDICTION IN UNGAUGED BASINS
 Norman E. PETERS

1115 HW07/11A/C25-010 Invited
 THE IMPERATIVE OF THE PUB APPROACH FOR SUSTAINABLE WATER MANAGEMENT IN WEST AFRICA
 Lekan OYEBANDE, Olusegun ADEAGA

1145 HW07/11A/C25-011
 THEORETICAL EXPLORATION OF CLIMATIC AND LANDSCAPE CONTROLS ON INTER-ANNUAL VARIABILITY OF RUNOFF AND FLOW DURATION CURVES
 Murugesu SIVAPALAN, Yoshiyuki YOKOO

1200 HW07/11A/C25-012
 ESTIMATION OF ANNUAL RUNOFF STATISTICS IN UNGAUGED BASINS WITH PARSIMONIOUS EVALUATION OF CLIMATIC INDICES
 Pierluigi CLAPS, Giovanni LAGUARDIA

1215 HW07/11A/C25-013
 SOME PERSPECTIVES ON REGIONALISED MODELS FOR WATER RESOURCES ASSESSMENT: FROM FLOW STATISTICS TO TIME-SERIES
 Andy R. YOUNG, Matt G.R. HOLMES, Alan GUSTARD, H.Gwyn REES



MI05 Friday, July 11 AM

LARGE SCALE PATTERNS OF ATMOSPHERIC VARIABILITY: DYNAMICS, CLIMATE IMPACTS, AND ROLE IN RECENT CLIMATE CHANGE (ICCI)
 Location: Site B, Room 17

Presiding Chairs: P. Yiou, E. Cassano

0830 MI05/11A/B17-001
 NORTH ATLANTIC OCEAN-ATMOSPHERE INTERACTIONS IN TWO COUPLED MODELS
 Laurent Z.X. LI, Sebastien CONIL

0850 **MI05/11A/B17-002**
TRANSIENT RESPONSE OF AN ATMOSPHERIC GCM TO NORTH ATLANTIC SST ANOMALIES
Laurent Z.X. LI, Sebastien CONIL

0910 **MI05/11A/B17-003**
MECHANISMS FOR THE NAO RESPONSES TO THE NORTH ATLANTIC SST TRIPOLE
Shiling PENG, Walter A. ROBINSON, Shuanglin LI

0930 **MI05/11A/B17-004**
A NEGATIVE FEEDBACK BETWEEN THE NORTHERN HEMISPHERE SEA ICE AND THE NAO
Kentaro YAMAMOTO, Yoshihiro TACHIBANA, Meiji HONDA, Jinro UKITA

0950 **MI05/11A/B17-005**
ATMOSPHERIC RESPONSE TO ZONAL VARIATIONS IN MIDLATITUDE SST: TRANSIENT AND STATIONARY EDDIES AND THEIR FEEDBACK
Masaru INATSU, Hitoshi MUKOUGAWA, Shang-Ping XIE

1010 **MI05/11A/B17-006**
LARGE-SCALE INTERANNUAL CHANGES IN OCEAN WIND WAVES OVER THE NORTH ATLANTIC AND NORTH PACIFIC: LINKS TO THE NORTHERN HEMISPHERE CYCLONE VARIABILITY
Sergey K. GULEV, Vika GRIGORIEVA, Olga ZOLINA

1030 **BREAK**

1050 **MI05/11A/B17-007** **Invited**
MULTI-DECADAL MODULATION IN THE ALEUTIAN-ICELANDIC LOW SEESAW AND RELATED MODULATIONS IN THE EOF STRUCTURE OF THE NORTHERN HEMISPHERE TROPOSPHERIC VARIABILITY
Hisashi NAKAMURA, Shozo YAMANE, Meiji HONDA

1130 **MI05/11A/B17-008**
ALEUTIAN-ICELANDIC LOW SEESAW BEHAVIOR IN AGCM ENSEMBLE SIMULATIONS
Meiji HONDA, Yochanan KUSHNIR, Hisashi NAKAMURA, Shozo YAMANE, Stephen E. ZEBIAK

1150 **MI05/11A/B17-009**
A SIMULATED SEESAW BETWEEN THE ALEUTIAN AND ICELANDIC LOWS AND MULTI-DECADAL MODULATIONS
Shozo YAMANE, Hisashi NAKAMURA, Meiji HONDA, Wataru OHFUCHI

1210 **MI05/11A/B17-010**
FORMATION MECHANISM OF VORTICITY ANOMALIES ON THE SUBTROPICAL JET IN THE MIDSUMMER NORTHERN HEMISPHERE
Naoki SATO, Masaaki TAKAHASHI

MI07 **Friday, July 11 AM**

CLIMATE INTERACTION AT THE LAND-ATMOSPHERE INTERFACE
Location: Site B, Room 18

Presiding Chair: N.O. Jensen

0830 **MI07/11A/B18-001**
A MODELLING STUDY OF THE CLIMATIC IMPACTS OF VEGETATION IN THE TROPICS: SENSITIVITY TO THE SPECIFICATION OF SOIL CHARACTERISTICS
Tom OSBORNE, David LAWRENCE, Julia SLINGO, Chris TAYLOR, Tim WHEELER

0850 **MI07/11A/B18-002**
NUMERICAL STUDY OF THE IMPACT OF VEGETATION CHANGES ON CLIMATE IN ASIAN TROPICAL REGION
Kazuo MABUCHI, Yasuo SATO, Hideji KIDA

0910 **MI07/11A/B18-003**
TOPIC: THE IMPACT OF CONGO BASIN DEFORESTATION ON PRECIPITATION AND OTHER CLIMATE PARAMETERS (A COMMON LAND MODEL SIMULATION.)
Willis Otieno SHEM

0930 **MI07/11A/B18-004**
SEASONALITY OF GLOBAL LAND-ATMOSPHERE INTERACTION IN NCAR CUMMUNITY CLIMATE MODEL COUPLED WITH THE COMMON LAND MODEL
Wanru WU, Robert E. DICKINSON

0950 **MI07/11A/B18-005**
THE INFLUENCE OF LAND EVAPOTRANSPIRATION ON CLIMATE VARIATIONS
Lan SUN, Guoxiong WU

1010 **BREAK**

1050 **MI07/11A/B18-006**
SURFACE ENERGY BALANCE STUDIES USING ASTER THERMAL INFRARED DATA
Andrew FRENCH, Thomas SCHMUGGE, William P. KUSTAS, John PRUEGER, Frederic JACOB

1110 **MI07/11A/B18-007**
EARLY RESULTS OF THE ILAS-II ONBOARD THE ADEOS-II SATELLITE
Hideaki NAKAJIMA, Takafumi SUGITA, Tatsuya YOKOTA, Hiroshi KANZAWA, Hirokazu KOBAYASHI, Yasuhiro SASANO

MC03 **Friday, July 11 AM**

DYNAMICS AND VARIABILITY OF MONSOON SYSTEMS (ICDM)
Location: Site A, Room 7

Presiding Chair: W.K. Lau

0830 **MC03/11A/A07-001** **Invited**
UNDERSTANDING AND PREDICTION OF THE ASIAN MONSOON ONSET
Guoxiong WU, Jiangyu MAO, Anmin DUAN, Yimin LIU, Xin LIU

0910 **MC03/11A/A07-002**
PREDICTABILITY ANALYSIS OF THE BAY OF BENGAL SUMMER MONSOON ONSET
Anmin DUAN, Guoxiong WU, Jiangyu MAO, Yimin LIU

0930 **MC03/11A/A07-003**
THE SIGNIFICANCE AND THE PERSISTENCE OF PRECURSORY SIGNALS OF THE ASIAN SUMMER MONSOON
Kuniko EGAWA, Masaki ISHIWATARI

0950 **MC03/11A/A07-004**
GLOBAL WIND PATTERNS AND ASSOCIATED SNOW ANOMALIES OVER EURASIA: PREDICTABILITY AND INFLUENCE ON LARGE SCALE MONSOON CIRCULATION
Susanna CORTI, Franco MOLteni, Cedo BRANKOVIC

1010 **BREAK**

1030 **MC03/11A/A07-005**
STRUCTURE AND EVOLUTION OF SOUTHERLY SURGES ON THE SUBMONTHLY TIMESCALE OVER THE EASTERN INDIAN OCEAN DURING AUSTRAL WINTER
Yoshiki FUKUTOMI, Tetsuzo YASUNARI

1050 **MC03/11A/A07-006**
THE 10-20-DAY VARIATION OVER THE SOUTHEAST ASIA IN 1998 RAINY SEASON
Satoru YOKOI, Takehiko SATOMURA

1110 **MC03/11A/A07-007**
SEASONAL CHANGE OF THE MOISTURE TRANSPORT TOWARD EAST ASIA AND THE WESTERN PACIFIC REGION DURING THE ASIAN SUMMER MONSOON
Miki HATTORI, Kazuhisa TSUBOKI

1130 **MC03/11A/A07-008**
THE PRECIPITATION PATTERNS OVER AUSTRALIA AND EAST ASIA DURING THE SEASON OF AUSTRALIAN SUMMER MONSOON
Mong-Ming LU, Ru-Jun MAY

1150 **MC03/11A/A07-009**
PRINCIPAL COMPONENT ANALYSIS OF PRECIPITATION REGIMES OVER INDIAN SUBCONTINENT
Anu SIMON, Mohankumar K.

1210 **MC03/11A/A07-010**
INTRA-SEASONAL VARIABILITY OF THE INDIAN MONSOON AS EXAMINED FROM THE NCMRWF ANALYSES AND GLOBAL MODEL SIMULATIONS
Sarat Chandra KAR, Shyam Vir SINGH

MC04 **Friday, July 11 AM**

PLANETARY ATMOSPHERES AND THEIR EVOLUTION (ICPAE)
Location: Site B, Room 22

Presiding Chair: K. Oyama

0830 **MC04/11A/B22-001** **Invited**
PRESENT STATUS OF JAPANESE VENUS ORBITER
Masato NAKAMURA, Takeshi IMAMURA, Takumi ABE, Nobuaki ISHII, Hiroshi YAMAKAWA, Ichiro NAKATANI, Koichiro OYAMA

0900 **MC04/11A/B22-002**
METEOROLOGICAL OBSERVATION BY JAPANESE VENUS ORBITER
Takeshi IMAMURA, Masato NAKAMURA

0915 **MC04/11A/B22-003**
VENUSIAN EQUATORIAL KELVIN WAVE IN MERIDIONAL CIRCULATION
Takeshi IMAMURA

0930 **MC04/11A/B22-004**
CHALLENGE TO DETECT VENUS LIGHTNING BY LAC ONBOARD PLANET-C
Yukihiro TAKAHASHI, Jun YOSHIDA, Masaki TSUTSUMI, Tomoo USHIO

0945 **MC04/11A/B22-005**
POWER SPECTRUM ANALYSIS OF VENUSIAN CLOUD IMAGES
Manabu SHIMOYAMA, Takeshi IMAMURA

1000	MC04/11A/B22-006	
SUPERROTATION IN A VENUS-LIKE AGCM Masaru YAMAMOTO, Masaaki TAKAHASHI		
1015	BREAK	
1045	MC04/11A/B22-007	Invited
THE MYSTERIOUS ATMOSPHERE OF VENUS, AND THE EUROPEAN VENUS EXPRESS MISSION Fred W. TAYLOR		
1100	MC04/11A/B22-008	
THE INCEPTION OF THE OCEANS AND THE MISSING CO ₂ ATMOSPHERE OF THE EARTH Lin-gun LIU		
1115	MC04/11A/B22-009	
STABILITY OF MEAN ZONAL FLOW IN CYCLOSTROPHIC BALANCE Masahiro TAKAGI, Yoshihisa MATSUDA		
1130	MC04/11A/B22-010	Invited
SUBMM DETECTABILITY OF MOLECULAR SPECIES IN PLANETARY ATMOSPHERES WITH GREAT AND HIFI Paul HARTOGH, Christopher JARCHOW		
1200	MC04/11A/B22-011	Invited
APPLICATION OF NONLINEAR OPTIMAL PERTURBATION TO THE STUDY OF THE INSTABILITY AND ASSOCIATED PREDICTABILITY OF PLANETARY ATMOSPHERIC MOTIONS Mu MU, Zhiyue ZHANG		

MC05	Friday, July 11 AM
MIDDLE ATMOSPHERE SCIENCE (ICMA)	
Location: Site A, Room 9	

		Presiding Chair: T. Tsuda
0830	MC05/11A/A09-001	Invited
SIMULATIONS OF THE EFFECT OF SOLAR VARIABILITY ON THE TROPOSPHERE AND MIDDLE ATMOSPHERE Kiyotaka SHIBATA, Kunihiko KODERA		
0900	MC05/11A/A09-002	Invited
OBSERVED HIGH FREQUENCY GRAVITY WAVES IN THE MESOSPHERE; SEASONAL VARIATION OF THEIR DIRECTIONALITY AND DAMPING Gary R. SWENSON, Alan Z. LIU		
0930	MC05/11A/A09-003	Invited
GLOBAL OBSERVATIONS OF GRAVITY WAVE PROPERTIES AND CONSTRAINTS FOR GCMS M. Joan ALEXANDER		
1000	MC05/11A/A09-004	
GRAVITY WAVE DRAG ESTIMATION USING A VARIATIONAL METHOD. TECHNIQUE DESCRIPTION AND TWIN EXPERIMENTS Manuel PULIDO, John THUBURN		

1020	BREAK	
1050	MC05/11A/A09-005	
GLOBAL DISTRIBUTION OF GRAVITY WAVE MOMENTUM FLUX DERIVED FROM CRISTA SATELLITE DATA Manfred ERN, P. PREUSSE, M.J. ALEXANDER, S.D. ECKERMANN		
1110	MC05/11A/A09-006	Invited
CONVECTIVELY FORCED INTERNAL GRAVITY WAVES AND THEIR PARAMETERIZATION IN GENERAL CIRCULATION MODELS Hye-Yeong CHUN, In-Sun SONG		
1140	MC05/11A/A09-007	
CONVECTIVELY GENERATED MESOSCALE GRAVITY WAVES SIMULATED THROUGHOUT THE MIDDLE ATMOSPHERE Takeshi HORINOCHI		
1200	MC05/11A/A09-008	
SEASONAL VARIATIONS OF GRAVITY WAVE VARIANCE OBSERVED BY CLAES Peter PREUSSE, M. ERN, S.D. ECKERMANN, M.J. ALEXANDER, J.L. MERGENTHALER		

MC11	Friday, July 11 AM
CLIMATE MODEL EVALUATION: HOW WELL DO MODELS REPRESENT OBSERVATIONS (ICCI)	
Location: Site B, Room 19	

0830	MC11/11A/B19-001	
TOWARD EXPLOITING COMMUNITY STANDARD EXPERIMENTS FOR CLIMATE MODEL EVALUATION Peter GLECKLER, K. SPERBER, K. TAYLOR		

0850	MC11/11A/B19-002	
STATUS OF MIDDLE ATMOSPHERE-CLIMATE MODELS: RESULTS FROM SPARC-GRIPS Steven PAWSON, Kunihiko KODERA		
0910	MC11/11A/B19-003	
ASSESSMENT OF GCM-CALCULATED RADIATIVE FLUXES BASED ON LAND-BASED OBSERVATIONS Martin WILD		
0930	MC11/11A/B19-004	
USING AMIP MODELS TO SIMULATE THE EARTH ROTATIONAL PROPERTY OF POLAR MOTION David A. SALSTEIN, Jolanta NASTULA		
0950	MC11/11A/B19-005	
INTERCOMPARISON OF STATIONARY WAVES IN AMIP-2 GCMS AND THEIR MAINTENANCE MECHANISMS Mingfang TING, Renu JOSEPH		
1010	MC11/11A/B19-006	
AMIP II SIMULATIONS OF SURFACE AIR TEMPERATURE AND PRECIPITATION: VALIDATION AND INTERCOMPARISON Jeong-Woo KIM, Jeong-Hyun PARK, Ho-Jeong SHIN		

1030	BREAK
1050	MC11/11A/B19-007
ON THE PERSISTENT MOISTURE DIVERGENCE DURING COOL FROM THE INDIAN SUBCONTINENT Ho-Jeong SHIN, Jeong-Woo KIM	
1110	MC11/11A/B19-008
THE EFFECT OF CONVECTIVE TRIGGERING IN THE TROPICAL ATMOSPHERE SIMULATED BY ATMOSPHERIC GCM Tsuneaki SUZUKI, Seita EMORI, Teruyuki NISHIMURA, Shinji MATSUMURA	
1130	MC11/11A/B19-009
EFFECT OF MICROPHYSICAL PROCESSES ON THE SIMULATION OF THE MADDEN-JULIAN OSCILLATION (MJO) IN GCM William K. LAU, H.T. WU	
1150	MC11/11A/B19-010
HOW WELL DO MODELS REPRESENT OCEANIC FORCING OF NORTH ATLANTIC CLIMATE? Mark John RODWELL, Claude FRANKIGNOUL, Holger POHLMANN, Martin STENDEL, Rowan T. SUTTON, Laurent TERRAY	
1210	MC11/11A/B19-011
MODELLING OF EXTRATROPICAL ENSO TELECONNECTIONS AND THE LINK WITH TROPICAL PRECIPITATION Hilary SPENCER, Julia SLINGO	

		Presiding Chair: Y. Takayabu
0830	MC17/11A/B23-001	Invited
PROPAGATION MECHANISMS OF THE INTRASEASONAL OSCILLATION Bin WANG, Xiuhua FU, Kemball COOK		
0900	MC17/11A/B23-002	
PROPAGATION OF THE MJO IN A COUPLED GENERAL CIRCULATION MODEL Peter INNESS, Julia SLINGO		
0920	MC17/11A/B23-003	
THE STRUCTURE AND PROPAGATION CHARACTERISTICS OF THE MJO IN MRI COUPLED GCM: COMPARISON WITH OBSERVATION AND ATMOSPHERE-ALONE GCM Kavirajan RAJENDRAN, Akio KITOH		
0940	MC17/11A/B23-004	
THREE-DIMENSIONAL STRUCTURE AND ITS MODIFICATION OF INTRASEASONAL VARIATIONS OVER THE INDONESIAN MARITIME CONTINENT Manabu D. YAMANAKA, Toshiki OKUDA, Noriko OKAMOTO, Fumie MURATA, Shuichi MORI, Hiroyuki HASHIGUCHI, Tien SRIBIMAWATI		

MC17	Friday, July 11 AM
PROPAGATION MECHANISMS FOR THE MADDEN-JULIAN OSCILLATION (MJO) (ICDM)	
Location: Site B, Room 23	

		Presiding Chair: Y. Takayabu
0830	MC17/11A/B23-001	Invited
PROPAGATION MECHANISMS OF THE INTRASEASONAL OSCILLATION Bin WANG, Xiuhua FU, Kemball COOK		
0900	MC17/11A/B23-002	
PROPAGATION OF THE MJO IN A COUPLED GENERAL CIRCULATION MODEL Peter INNESS, Julia SLINGO		
0920	MC17/11A/B23-003	
THE STRUCTURE AND PROPAGATION CHARACTERISTICS OF THE MJO IN MRI COUPLED GCM: COMPARISON WITH OBSERVATION AND ATMOSPHERE-ALONE GCM Kavirajan RAJENDRAN, Akio KITOH		
0940	MC17/11A/B23-004	
THREE-DIMENSIONAL STRUCTURE AND ITS MODIFICATION OF INTRASEASONAL VARIATIONS OVER THE INDONESIAN MARITIME CONTINENT Manabu D. YAMANAKA, Toshiki OKUDA, Noriko OKAMOTO, Fumie MURATA, Shuichi MORI, Hiroyuki HASHIGUCHI, Tien SRIBIMAWATI		

1000	BREAK	
1030	MC17/11A/B23-005	Invited
THE ROLE OF SEA SURFACE TEMPERATURE FORCING IN THE ORGANISATION AND EASTWARD PROPAGATION OF MJO CONVECTIVE ANOMALIES Adrian J. MATTHEWS		
1100	MC17/11A/B23-006	
WAVE-ZONAL FLOW INTERACTION IN THE MADDEN-JULIAN OSCILLATION Masahiro WATANABE		

- 1120

MC17/11A/B23-007

MJO-LIKE SYSTEMS IN IDEALIZED AQUAPLANET SIMULATIONS

Mitchell W. MONCRIEFF, Wojciech W. GRABOWSKI
- 1140

MC17/11A/B23-008

MODELING THE DISTINCTION BETWEEN THE MJO AND MOIST KELVIN WAVES

Richard Brian NEALE, Brian E. MAPES
- 1200

MC17/11A/B23-009

MECHANISM OF INTRASEASONAL OSCILLATION IN THE SOUTH ASIAN SUMMER MONSOON REGION

Hae-Kyung Lee DRBOHLAV, Bin WANG

Friday, July 11

PM



UNION

U7

Friday, July 11 PM

HISTORY OF IUGG

Location: Site D, Room 32

Presiding Chair: A.A. Ashour

- 1400

U7/11P/D32-001

SHORT HISTORICAL REVIEW ON COOPERATION IN GEOMAGNETISM

Youry P. SIZOV, Thoa Thi Kim NGUEN, Hao Quang TRUONG, Chau Ha DUyen, Victor N.BOBROV, Youry P. TSVETKOV, Vladislav N. LUGOVENCO
- 1450

U7/11P/D32-002

NIKOLAY PUSHKOV, SCIENTIST AND ORGANIZER (1903-1981)

Viktor N. ORAEVSKY, Vadim P. GOLOVKOV
- 1505

U7/11P/D32-003

A BRIEF HISTORY OF IAVCEI

Stephen R. MCNUTT

Invited
- 1535

U7/11P/D32-004

THE HISTORY OF OCEANOGRAPHY AND IAPSO

Fred E. CAMFIELD



INTER-ASSOCIATION

JSA09-Posters

Friday, July 11 PM

CHALLENGES OF GLOBAL CHANGE IN FORCING FROM BELOW AND ABOVE (IAGA, IAMAS)

Location: Site D

- 1400-050

JSA09/11P/D-001

ENSO - A QUASIPERIODIC FORCED DYNAMICAL SYSTEM

Nadejda Nazarovna IVACHTCHENKO

Poster
- 1400-051

JSA09/11P/D-002

OBSERVATIONS OF IONOSPHERE TO EARTH CURRENT DENSITY FROM A LOW LATITUDE CONTINENTAL STATION TIRUNELVELI (8.7°N, 77.8°E)

Panneerselvam CHITHIRAIVEL, K. JEEVA, K.U. NAIR, C. SELVARAJ, S. GURUBARAN, B.N. RAINA, R. RAJARAM

Poster
- 1400-052

JSA09/11P/D-003

MONITORING OF SCHUMANN RESONANCE AT EQUATORIAL ELECTROJET LATITUDE

C. PANNEERSELVAM, C. SELVARAJ, K. JEEVA, K.U. NAIR, S. GURUBARAN, B.N. RAINA, R. RAJARAM

Poster

JSP09

Friday, July 11 PM

PHYSICAL ASPECTS OF AIR-SEA INTERACTION (IAPSO, IAMAS)

Location: Site B, Room 20

Presiding Chairs: L. Shay, P. Black

- 1400

JSP09/11P/B20-001

STUDY FOR ESTIMATION OF AIR-SEA CO₂ GAS TRANSFER BY WAVE BREAKING MODEL USING SATELLITE DATA

Naoya SUZUKI, Naoto EBUCHI, Takahiro OSAWA, Yasuhiro SUGIMORI

- 1415

JSP09/11P/B20-002

SENSITIVITY OF THE EQUATORIAL PACIFIC OCEAN CIRCULATION TO CHLOROPHYLL MODULATION OF PENETRATIVE SOLAR IRRADIANCE IN AN OGCM

Kyozo UEYOSHI, Detlef STAMMER, Shoichiro NAKAMOTO, Bulusu SUBRAHAMANYAM, Prasanna KUMAR, Kei MUNEYAMA
- 1430

JSP09/11P/B20-003

AIR-SEA FLUX ESTIMATION IN HIGH WIND BOUNDARY LAYERS: PLANS AND INITIAL RESULTS FROM THE HURRICANE COUPLED BOUNDARY LAYER AIR-SEA TRANSFER (H-CBLAST) EXPERIMENT

Peter Gerard BLACK
- 1500

JSP09/11P/B20-004

ATMOSPHERE-WAVE-OCEAN COUPLING IN TROPICAL CYCLONES

Shuyi S. CHEN, Wei ZHAO, Joseph E. TENERELLI, Mark A. DONELAN
- 1515

JSP09/11P/B20-005

EFFECTS OF OCEANIC MIXED LAYER ENTRAINMENT CLOSURE ON THE AIR-SEA FLUXES DURING A TROPICAL CYCLONE PASSAGE

S. Daniel JACOB, Chester J. KOBLINSKY, Lynn Keith SHAY, George R. HALLIWELL

1530

BREAK

- 1545

JSP09/11P/B20-006

OCEANIC AND ATMOSPHERIC MEASUREMENTS ACQUIRED IN TROPICAL CYCLONES ISIDORE AND LILI

Lynn K. SHAY, Thomas M. COOK, Scott A. GUHIN, Peter G. BLACK, Eric W. UHLHORN, Joseph J. CIONE, Sean R. WHITE
- 1600

JSP09/11P/B20-007

OCEAN EFFECTS ON TROPICAL CYCLONE INTENSIFICATION IN A MINIMAL THREE-DIMENSIONAL COUPLED MODEL

Hongyan ZHU, Wolfgang ULRICH, Roger K. SMITH
- 1615

JSP09/11P/B20-008

AIR-SEA INTERACTIONS DURING PASSAGE OF A WINTER STORM OVER THE GULFSTREAM: A 3-DIMENSIONAL, COUPLED, ATMOSPHERE-OCEAN MODEL STUDY

Huijie XUE, Yongping LI, John M. BANE

Invited
- 1645

JSP09/11P/B20-009

SYNOPTIC VARIABILITY OF OCEAN-ATMOSPHERE TURBULENT FLUXES ASSOCIATED WITH ATMOSPHERIC CYCLONES

Olga ZOLINA, Sergey GULEV
- 1700

JSP09/11P/B20-010

A STUDY OF HIGH-FREQUENCY AIR-SEA INTERACTION PROCESSES

Chung-Hsiung SUI, June CHANG

JSP10

Friday, July 11 PM

ROTATING AND STRATIFIED FLUIDS (IAPSO, IAGA, IAMAS, SEDI)

Location: Site B, Room 21

- 1420

JSP10/11P/B21-001

VARIABILITY OF MIXING EFFICIENCY IN STRATIFIED SHEAR FLOWS

Colm-cille P. CAULFIELD, W.Richard PELTIER
- 1450

JSP10/11P/B21-002

HIGH REYNOLDS NUMBER LABORATORY MOUNTAIN-WAVE BREAKING

Olivier EIFF, Frederic HUTEAU
- 1510

JSP10/11P/B21-003

WAVE-VORTEX INTERACTIONS IN A ROTATING STRATIFIED FLUID AND TRANSPORT THROUGH A DYNAMICAL BARRIER

Frédéric Y. MOULIN, Jan-Bert FLOR
- 1530

JSP10/11P/B21-004

A LABORATORY STUDY OF VORTEX-INDUCED MIXING IN THE FRONTAL REGION OF BUOYANT SURFACE PLUMES USING PARTICLE-TRACKING METHODS

Thomas A. MCCLIMANS, Walman HUTAHAEAN, Oivind A. ARNTSEN

1550

BREAK

- 1610

JSP10/11P/B21-005

LATERAL STIRRING BY THE RELAXATION OF DIAPYCNAL MIXING EVENTS

Marie-Pascale G. LELONG, Miles A. SUNDERMEYER
- 1640

JSP10/11P/B21-006

INTERACTION OF INERTIA-GRAVITY WAVES WITH A BAROCLINIC SHEAR FLOW

Chantal STAQUET, Neil R. EDWARDS
- 1700

JSP10/11P/B21-007

PERIODIC MOTIONS PRODUCED BY CIRCULAR DISC PERFORMING TORSION OSCILLATIONS AND SUPERPOSED UNIFORM ROTATION IN A CONTINUOUSLY STRATIFIED LIQUID

Yuli Dmitrievich CHASHECHKIN

WEEK

B

FRI

PM

1720 JSP10/11P/B21-008
TAYLOR-COUPETTE FLOW IN A TWO-FLUID SYSTEM: INSTABILITIES AND MIXING
Evgueni V. ERMANYUK, Jan-Bert FLOR, Beatrice JANIAUD

1740 JSP10/11P/B21-009
INTERNAL WAVE GENERATION FROM A TURBULENT LAYER
Kathleen B. DOHAN, Bruce R. SUTHERLAND



GAIL.06-Posters Friday, July 11 PM

IONOSPHERIC IRREGULARITIES, FIELDS AND WAVES

Location: Site D

1400-053 GAIL.06/11P/D-001 Poster
SIMULTANEOUS RADAR OBSERVATIONS OF THE ELECTROJET PLASMA IRREGULARITIES AT 18 AND 54.95 MHZ OVER TRIVANDRUM, INDIA
Amit Kumar PATRA, D. TIWARI

1400-054 GAIL.06/11P/D-002 Poster
ROLE OF E-REGION CONDUCTIVITY IN THE DEVELOPMENT OF EQUATORIAL IONOSPHERIC PLASMA BUBBLES
Archana BHATTACHARYYA

1400-055 GAIL.06/11P/D-003 Poster
ESTIMATION OF A SIZES SPECTRUM OF THE INHOMOGENEITY THE LOWER IONOSPHERE ON THE DATA OF DOPPLER PHASE-GONIOMETRIC MEASUREMENTS
Vadim Yurievich TEPLOV, Vladimir Vladimirovich BOCHKAREV, Inna Romanovna PETROVA

1400-056 GAIL.06/11P/D-004 Poster
INVESTIGATING TRAVELING IONOSPHERIC DISTURBANCES WITH THE DPS-4 IONOSONDE
Konstantin G. RATOVSKEY, Andrey V. MEDVEDEV, Boris G. SHPYNEV, Dmitriy S. KUSHNAREV

1400-057 GAIL.06/11P/D-005 Poster
STRONG TURBULENCE STRUCTURES IN MODIFIED IONOSPHERE
Andrey Valentinovich KOCHETOV, Galina Ivanovna TERINA

1400-058 GAIL.06/11P/D-006 Poster
STATISTICAL CHARACTERISTICS OF VHF RADAR OBSERVATIONS OF LOW-LATITUDE E REGION FIELD-ALIGNED IRREGULARITIES OVER GADANKI
Amit Kumar PATRA, Sripathi S., Sivakumar V., Rao P.B.

1400-059 GAIL.06/11P/D-007 Poster
TO IMPROVE A REGIONAL IONOSPHERIC TEC MODEL OVER JAPAN ISLANDS
Jinsong PING, Akinori SAITO, Yusuke KONO, Koji MATSUMOTO, Kosuke HEKI, Nobuyuki KAWANO

1400-060 GAIL.06/11P/D-008 Poster
ANNUAL TEC VARIATION IN THE EQUATORIAL ANOMALY REGION DURING THE SOLAR MINIMUM: SEPTEMBER 1996 - AUGUST 1997
Chin-Chun WU, C.D. FRY, J.-Y. LIU, K. LIOU, C.-L. TSENG

1400-061 GAIL.06/11P/D-009 Poster
A STUDY OF EQUATORIAL SPREAD F DURING A SOLAR MAXIMUM PERIOD, 1999-2000
Chien-Chih LEE, J.Y. LIU, B.W. REINISCH, W.S. CHEN, F.D. CHU

1400-062 GAIL.06/11P/D-010 Poster
SIMULTANEOUS RADAR AND OPTICAL OBSERVATION OF E-REGION IRREGULARITIES AND F-REGION TRAVELING IONOSPHERIC DISTURBANCES
Fumiki ONOMA, Tadahiko OGAWA, Yuichi OTSUKA, Kazuo SHIOKAWA, Mamoru YAMAMOTO

1400-063 GAIL.06/11P/D-011 Poster
THE STRUCTURE OF THE TMA-INDUCED OPTICAL EMISSION OBSERVED IN THE SEEK-2 CAMPAIGN
Makiko ARAKAWA, Hiroshi FUKUNISHI, Yukihiro TAKAHASHI, Mitsuteru SATO, Takayuki ONO, Mamoru YAMAMOTO, Kazuo SHIOKAWA, Akinori SAITO, Masa-yuki YAMAMOTO, M.F. LARSEN

1400-064 GAIL.06/11P/D-012 Poster
RAPID-RUN IONOSONDE OBSERVATIONS OF SPORADIC-E DURING THE SEEK-2 CAMPAIGN
Takashi MARUYAMA, Hisao KATO, Maho NAKAMURA, Mamoru YAMAMOTO, Shoichiro FUKAO

1400-065 GAIL.06/11P/D-013 Poster
HIGH RESOLUTION VHF RADAR OBSERVATIONS OF DAYTIME QP STRUCTURES IN LOWER E REGION OVER GADANKI
Sripathi SAMIREDDIPALLE, Amit Kumar PATRA, Sivakumar V., Rao P. B.

1400-066 GAIL.06/11P/D-014 Poster
SOME CHARACTERISTICS OF THE VHF RADAR OBSERVATIONS OF THE LOWER E REGION IRREGULARITIES AS DIAGNOSTIC TOOL TO IDENTIFY THEIR GENERATION MECHANISM IN TERMS OF PLASMA INSTABILITIES OR NEUTRAL TURBULENCE
Amit Kumar PATRA, Sripathi S., Rao P.B.

1400-067 GAIL.06/11P/D-015 Poster
HEIGHT DEPENDENCE OF GRAVITY WAVE ACTIVITY IN THE F-REGION IONOSPHERE
Petra SAULI, Patrice ABRY, David ALTADILL

1400-068 GAIL.06/11P/D-016 Poster
LATITUDINAL VARIABILITY OF SPECTRA OF PLASMA IRREGULARITIES INDUCED BY TURBULENT MIXING IN THE LOWER IONOSPHERE
Yurij KYZYUROV

1400-069 GAIL.06/11P/D-017 Poster
E-REGION DOPPLER SPECTRAL BANDS DETECTED USING HF DIGISONDE AND MF RADAR AT SOUTHERN HIGH LATITUDES
Ray MORRIS, D.P. MONSELESAN, D.A. HOLDSWORTH, D.J. MURPHY, P.L.DYSON

1400-070 GAIL.06/11P/D-018 Poster
MERIDIONAL NEUTRAL WINDS DERIVED USING THE E REGION FIELD ALIGNED IRREGULARITIES (FAI) AS TRACERS OVER GADANKI AND A COMPARISON WITH MODEL AND HRDI DATA
Sripathi SAMIREDDIPALLE, Amit Kumar PATRA, Rao P. B., Manas Ranjan PADHY

1400-071 GAIL.06/11P/D-019 Poster
INHOMOGENEOUS STRUCTURE OF THE HIGH-LATITUDE IONOSPHERE AS OBSERVED AT EAST SIBERIA
Yury V. LIPKO

GAIL.07 Friday, July 11 PM

AERONOMY OF PLANETARY ATMOSPHERES INCLUDING COMPARATIVE ATMOSPHERES

Location: Site A, Room 12

Presiding Chair: K. Oyama

1400 GAIL.07/11P/A12-001 Invited
THE MARTIAN THERMOSPHERE: A NEW PERSPECTIVE
Gerald M. KEATING, Michael E. THERIOT, Robert H. TOLSON, Stephen W. BOUGHER, Jeffrey M. FORBES, Francois FORGET

1430 GAIL.07/11P/A12-002 Invited
LONGITUDINAL DISTRIBUTIONS OF THERMOSPHERE AND IONOSPHERE AT LOW LATITUDE OF MARS : COMPARISON WITH ACCELEROMETER AND RADIO MEASUREMENTS
Syed Aftab HAIDER

1500 GAIL.07/11P/A12-003 Invited
CHARACTERISTICS OF THE MIGRATING DIURNAL TIDE IN THE MARTIAN ATMOSPHERE
Yoshiyuki O. TAKAHASHI, Hitoshi FUJIWARA, Hiroshi FUKUNISHI

1530 GAIL.07/11P/A12-004
WAVE STRUCTURES IN THE MARTIAN TOPSIDE IONOSPHERE OBSERVED BY MARS GLOBAL SURVEYOR
Jing-Song Wang WANG, Erling NIELSEN

1600 BREAK

1620 GAIL.07/11P/A12-005
MARS ATMOSPHERE AND ITS EFFECTS ON RADIO WAVE PROPAGATION
Christian M. HO, Miles K. SUE, Steve D. SLOBIN

1640 GAIL.07/11P/A12-006 Invited
THE PLASMA ENVIRONMENTS OF THE GALILEAN SATELLITES OF JUPITER
Arvydas J. KLIORE, Andrew F. NAGY

1710 GAIL.07/11P/A12-007 Invited
NEW RESULTS ON ATMOSPHERIC AND SURFACE FEATURES ON TITAN
Athena COUSTENIS

GAIL.08-Posters Friday, July 11 PM

WHAT IS THE LIFE-HISTORY OF PARTICLES IN THE MAGNETOSPHERIC REGIONS?

Location: Site D

Presiding Chair: T. Moore, S.A. Fuselier

- 1400-072

GAIII.08/11P/D-001

Poster
- NONLINEAR WAVE -WAVE INTERACTION AND CASCADES OF THE TURBULENCE SEEN IN THE POLAR CUSP BY PROGNOZ 8, INTERBALL 1AND CLUSTER SATELLITES
- Jan S. BLECKI, Sergey P. SAVIN , Michel PARROT, Nicole CORNILLEAU-WEHRLIN, Roman WRONOWSKI
- 1400-073

GAIII.08/11P/D-002

Poster
- ANALYSIS OF THE ENERGETIC PARTICLES DATA FROM DETECTORS ONBOARD 'ZY-1' SOLAR SYNCHRONOUS SATELLITE
- Zou XIAO, Hong ZOU
- 1400-074

GAIII.08/11P/D-003

Poster
- EFFICIENCY OF THE MAIN MECHANISMS OF THE MAGNETOSPHERIC RING CURRENT DECAY
- Lilia Z. SIZOVA

GAIII.09

Friday, July 11 PM

HOW DOES ENERGY FLOW FROM THE SOLAR CORONA THROUGH THE MAGNETOSPHERIC REGIONS?

Location: Site A, Room 11

Presiding Chair: B. Thompson

- 1400

GAIII.09/11P/A11-001
- MULTIPLE SPACECRAFT MEASUREMENTS OF ENERGETIC IONS DURING A HIGH SOLARWIND PRESSURE EVENT
- Jiasheng CHEN, Theodore A. FRITZ
- 1420

GAIII.09/11P/A11-002
- OBSERVATIONS OF DISCRETE, GLOBALMAGNETOSPHERIC OSCILLATIONS DIRECTLY-DRIVEN BY SOLAR WIND DENSITY VARIATIONS
- Larry KEPKO, Harlan E. SPENCE
- 1440

GAIII.09/11P/A11-003

Invited
- COUPLING OF ENERGY FROM THE SOLAR WIND INTO THE OUTER ZONE RADIATION BELTS THROUGH ULF VARIATIONS
- Scot R. ELKINGTON, Michael J. WILTBERGER, Anthony A. CHAN, Yue FEI, Daniel N. BAKER, Mary K. HUDSON
- 1510

GAIII.09/11P/A11-004
- SOLAR WIND DRIVING OF THE MAGNETOSPHERE: RING CURRENT AND MHD RESULTS
- Niescja E. TURNER, Ramon E. LOPEZ, Michael J. WILTBERGER, Elizabeth J. MITCHELL

1530

BREAK

- 1600

GAIII.09/11P/A11-005
- INTERPLANETARY SHOCKS AS A POSSIBLE TRIGGER OF SUBSTORM ONSETS: A STATISTICAL STUDY WITH POLAR ULTRAVIOLET IMAGER IMAGES
- Kan LIOU, Patrick T. NEWELL, Chin-Chun WU, Ronald P. LEPPING, Ching-I MENG
- 1620

GAIII.09/11P/A11-006
- ON THE PREDICTION OF MAGNETIC STORMS
- Mervyn P. FREEMAN, Richard B. HORNE, Matthew DAWS, Paul S. WILSON
- 1640

GAIII.09/11P/A11-007

Invited
- EARTH IN THE THREE DIMENSIONAL SOLAR WIND FLOW
- Ken'ichi FUJIKI, Masayoshi KOJIMA, Munetoshi TOKUMARU, Tomoaki OHMI, Masahiro YAMASHITA, Masaya HIRANO, Bernard V. JACKSON, Paul P. HICK
- 1710

GAIII.09/11P/A11-008
- WAVELET ANALYSIS OF INTERPLANETARY MAGNETIC FIELD AND AE INDEX FLUCTUATIONS DURING HILDCAA EVENTS
- Fernando Luis GUARNIERI, Walter Demetrio GONZALEZ, Bruce TSURUTANI, Ezequiel ECHER, Alisson DAL LAGO, Luis Eduardo VIEIRA, Alicia Luiza CLUA DE GONZALEZ, Nelson Jorge SCHUCH



HS02

Friday, July 11 PM

WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)

Location: Site C, Room 24

Presiding Chair: G. Bloeschl

- 1400

HS02/11P/C24-001
- ELEVATED DROUGHT RISK DUE TO MULTI-DECADAL CLIMATEVARIABILITY
- Anthony S. KIEM, Stewart W. FRANKS

- 1415

HS02/11P/C24-002
- ON THE CAUSES OF TAIWAN DROUGHT EPISODES
- Fong-Chiau CHANG, Chung-Ho WANG
- 1430

HS02/11P/C24-003
- THE CHARACTERISTICS OF BASE-FLOW RECESSION COEFFICIENT AND ITS LONG TERM CHANGE ON MOUNTAINOUS WATERSHED OF RAPID FOREST RESTORATION
- Junji SHIMOKURA, Hirofumi SHIBANO
- 1445

HS02/11P/C24-004
- IMPACT OF CLIMATE ON FLOW REGIMES OF THE UPPER REACHES OF STREAMS
- Hironobu SUGIYAMA, Varawoot VUDHIVANICH, Andrew C. WHITAKER, Kosit LORSIRIRAT
- 1500

HS02/11P/C24-005
- ASSESSMENT OF DROUGHT IN THE CONDITIONS OF CLIMATE AND ECOSYSTEM CHANGES: CASE STUDY IN THE SOUTH - WEST REGION OF ROMANIA
- Gheorghe STANCALIE, Elena SAVIN, Vasile CRACIUNESCU, Simona CATANA, Anisoara IORDACHE

HS02-Oral-Posters

Friday, July 11 PM

WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICSW, ICWQ)

Location: Site C, Room 24

Presiding Chair: G. Bloeschl

- 1515

HS02/11P/C24-001OP

Oral-Poster
- TOWARDS AN OPTIMUM WATER RESOURCES DEVELOPMENT IN THE NIGERIAN NIGER DELTA
- Adepoju D. OLUSEGUN
- 1519

HS02/11P/C24-002OP

Oral-Poster
- CURRENT CONSTRAINTS TO THE IMPLEMENTATION OF WATER DEMAND MANAGEMENT (WDM) IN URBAN CENTRES IN ZAMBIA
- Daniel C.W. NKHUKUWA
- 1523

HS02/11P/C24-003OP

Oral-Poster
- PRECIPITATION ENHANCEMENT OPERATION ALONG THE YELLOW RIVER IN WESTERN CHINA BY WEATHER MODIFICATION METHOD
- Xueliang GUO, Meiyuan HUANG, Tiezheng LI, Junsheng ZHANG
- 1527

HS02/11P/C24-004OP

Oral-Poster
- WATER RESOURCE MANGEMENT IN THE UPPER REACH OF THE GORAI RIVER OF BANGLADESH
- Mohammad Monowar HOSSAIN, Mohammad Rashedul ISLAM
- 1531

HS02/11P/C24-005OP

Oral-Poster
- THE GENERAL PRINCIPLE FOR RESTORATION OF THE RIVER BASINS
- Boris FASHCHEVSKY, Tatyana FASHCHEVSKAY
- 1535

HS02/11P/C24-006OP

Oral-Poster
- MAÎRISE ET CONFLITS LI ÉS - LA GESTION DES RESSOURCES EN EAU DANS LA BASSE VALL ÉE ET LE DELTA DU FLEUVE SÉNÉGAL.
- Alioune KANE
- 1539

HS02/11P/C24-007OP

Oral-Poster
- RAINWATER MANAGEMENT TECHNOLOGY FOR CONJUNCTIVE USE IN ARID REGION, INDIA
- M. A. KHAN
- 1543

HS02/11P/C24-008OP

Oral-Poster
- DECISION SUPPORT INFORMATION FOR WATERSHED MANAGEMENT OVER DROUGHT PRONE REGION
- Nagarajan Ramakrishnan IYER
- 1547

HS02/11P/C24-009OP

Oral-Poster
- USE OF GEOGRAPHIC INFORMATION AND REMOTELY SENSED DATA IN THE DECISION-MAKING SUPPORT SYSTEM FOR FLOOD MANAGEMENT IN ROMANIA
- Corina PREDESCU, Gheorghe STANCALIE, Elena SAVIN
- 1551

HS02/11P/C24-010OP

Oral-Poster
- VELOCITY DISTRIBUTION DUE TO LAUNCHING APRON AROUND ABUTMENT
- Mohammad Monowar HOSSAIN, Mohammad Salzar HOSSAIN, Mohammad Faheem SADEQUE
- 1555

HS02/11P/C24-011OP

Oral-Poster
- URGENT WATER SUPPLY INTO ZHALONG WETLAND IN 2001 AND 2002
- Shiguo XU, Lianwen DANG, Heyue LI

1559

DISCSSION

HS02c-Posters Friday, July 11 PM

WATER RESOURCES SYSTEMS: GLOBAL CHANGE, RISK ASSESSMENT AND WATER MANAGEMENT (ICWRS, ICASVR, ICWSW, ICWQ)

Location: Site D

- 1630-099 HS02c/11P/D-001 Poster**
MAXIMUM OVERLAND FLOW IN RIVER BASIN AND LANDUSE
Elena ASABINA
- 1630-100 HS02c/11P/D-002 Poster**
ARTIFICIAL NEURAL NETWORK MODELING OF THE RAINFALL-RUNOFF EXTREME EVENTS
Dionysia PANAGOULIA, Nikos MARATOS
- 1630-101 HS02c/11P/D-003 Poster**
DETERMINATION OF INSTANTANEOUS UNIT HYDROGRAPH WITH CLARK'S TECHNIQUE IN GIS
Musa YILMAZ, Nurunnisa USUL
- 1630-102 HS02c/11P/D-004 Poster**
ARIDIFICATION AND THE INCREASE OF FLOOD EVENTS IN CENTRAL EUROPE
János RAKONCZAI, Katalin BÓDIS, Ferenc KOVÁCS
- 1630-103 HS02c/11P/D-005 Poster**
DEVELOPMENT OF NEW TECHNOLOGIES OF FLOOD SIMULATION AND FORECASTING IN REAL-TIME
Sandra Gabriela GARCIA
- 1630-104 HS02c/11P/D-006 Poster**
SPATIAL-TEMPORAL APPROPRIATENESSES OF EXTREME PROCESSES FORMATION IN RIVERS SYSTEMS OF REGIONS WITH SHARP CONTINENTAL CLIMATE
Leonid M. KORYTNYI, N. V. KICHIGINA
- 1630-105 HS02c/11P/D-007 Poster**
DEVELOPMENT OF WATERSHED RAINFALL-RUNOFF MODEL BASED ON THE PARTIAL CONTRIBUTING AREA CONCEPT
Chin-Hsin CHANG
- 1630-106 HS02c/11P/D-008 Poster**
REAL TIME FLOOD FORECASTING: A CASE STUDY OF THE JHELM RIVER, PAKISTAN
Sajjad AHMAD
- 1630-107 HS02c/11P/D-009 Poster**
REVISITING 1992 FLOODS IN PAKISTAN: OPERATION OF MANGLA RESERVOIR
Sajjad AHMAD
- 1630-108 HS02c/11P/D-010 Poster**
STOCHASTIC MODEL OF THE RUNOFF FLUCTUATIONS OF THE RIVERS WITH A FLOOD FLOW REGIME
Andrei V. KHRISTOFOROV, Taras V. SAMBORSKY
- 1630-109 HS02c/11P/D-011 Poster**
IMPACT OF POPULATION GROWTH AND THE CLIMATE CHANGE ON THE QUANTITY OF WATER RESOURCES IN NORTH EASTERN REGION OF INDIA
Uttam C. SHARMA
- 1630-110 HS02c/11P/D-012 Poster**
MANAGEMENT OF WATER RESOURCES IN KANDI (DROUGHT PRONE) ZONE OF JAMMU PROVINCE FOR HIGHER CROP PRODUCTIVITY
Vikas SHARMA
- 1630-111 HS02c/11P/D-013 Poster**
WATER RESOURCES MANAGEMENT AND PLANNING; THE NEED FOR MULTIDISCIPLINARY MODELLING APPROACHES
Islam Hamza ABOU EL-MAGD, Trevor TANTON
- 1630-112 HS02c/11P/D-014 Poster**
THE SYSTEM FOR ECOLOGICAL AND ECONOMICAL ASSESSMENT OF USE, PRESERVATION AND RESTORATION OF URBAN WATER BODIES: ST. PETERSBURG AS A CASE STUDY
Sergey A. KONDRATYEV
- 1630-113 HS02c/11P/D-015 Poster**
OPTIMAL PRESSURE CONTROL IN SUPERVISORY WATER DISTRIBUTION NETWORK USING SHUFFLED COMPLEX EVOLUTION ALGORITHM
Haytham AWAD, Akira KAWAMURA, Kenji JINNO
- 1630-114 HS02c/11P/D-016 Poster**
BANK FILTRATION SYSTEMS AS COMBINED TECHNOLOGY FOR GROUNDWATER AND SURFACE WATER
Ekkehard O. HOLZBECHER
- 1630-115 HS02c/11P/D-017 Poster**
REDUCING SHALLOW - WELL CONTAMINATION IN UGANDA
James MWAMI

- 1630-116 HS02c/11P/D-018 Poster**
WATER MANAGEMENT ON MEDITERRANEAN ISLANDS UNDER CHANGING CONDITIONS
Manfred A. LANGE
- 1630-117 HS02c/11P/D-019 Poster**
RELIABILITY ANALYSIS OF THE INTEGRATED MANAGEMENT OF WATER QUANTITY AND WATER QUALITY FOR WATER TRANSFER SYSTEM
Xiang ZHANG, Jun XIA
- 1630-118 HS02c/11P/D-020 Poster**
LATERITE - LOW COST REMEDIAL OPTION FOR HIGH ARSENIC GROUNDWATER
Rupa BHATTACHARYYA, Debashis CHATTERJEE, Yoshio TAKAHASHI
- 1630-119 HS02c/11P/D-021 Poster**
LARGE DIAMETER WELLS AS A SOLUTION AGAINST THE RISK OF CONTAMINATION IN THE SEMI-ARID WORLD USING THE FILTER FACTOR CONCEPT
Sarma K. SEEMANAPALLI, Soniaeli P. CARVALHO, Silvestre L. NOBREGA, Alex M. NEYVES
- 1630-120 HS02c/11P/D-022 Poster**
REDUCTION OF RISK OF AGROTOXICS BY DRAINAGE IN AGRICULTURAL LANDS USING INTERCEPTOR DRAINS
Sarma K. SEEMANAPALLI
- 1630-121 HS02c/11P/D-023 Poster**
WATER QUALITY MANAGEMENT FOR CONJUNCTIVE USE OF GROUND WATER AND WASTEWATER FROM AQUACULTURE : AN INDIAN OVERVIEW
Lalitkumar Pandit CHAUDHARI
- 1630-122 HS02c/11P/D-024 Poster**
TOWARDS AN OPTIMUM WATER RESOURCES DEVELOPMENT IN THE NIGERIAN NIGER DELTA
Adepoju D. OLUSEGUN
- 1630-123 HS02c/11P/D-025 Poster**
CURRENT CONSTRAINTS TO THE IMPLEMENTATION OF WATER DEMAND MANAGEMENT (WDM) IN URBAN CENTRES IN ZAMBIA
Daniel C.W. NKHUWA
- 1630-124 HS02c/11P/D-026 Poster**
PRECIPITATION ENHANCEMENT OPERATION ALONG THE YELLOW RIVER IN WESTERN CHINA BY WEATHER MODIFICATION METHOD
Xueliang GUO, Meiyuan HUANG, Tiezheng LI, Junsheng ZHANG
- 1630-125 HS02c/11P/D-027 Poster**
WATER RESOURCE MANGEMENT IN THE UPPER REACH OF THE GORAI RIVER OF BANGLADESH
Mohammad Monowar HOSSAIN, Mohammad Rashedul ISLAM
- 1630-126 HS02c/11P/D-028 Poster**
THE GENERAL PRINCIPLE FOR RESTORATION OF THE RIVER BASINS
Boris FASHCHEVSKY, Tatyana FASHCHEVSKAY
- 1630-127 HS02c/11P/D-029 Poster**
MAÎRISE ET CONFLITS LI ÉS - LA GESTION DES RESSOURCES EN EAU DANS LA BASSE VALLÉE ET LE DELTA DU FLEUVE SÉNÉGAL.
Alioune KANE
- 1630-128 HS02c/11P/D-030 Poster**
RAINWATER MANAGEMENT TECHNOLOGY FOR CONJUNCTIVE USE IN ARID REGION, INDIA
M. A. KHAN
- 1630-129 HS02c/11P/D-031 Poster**
DECISION SUPPORT INFORMATION FOR WATERSHED MANAGEMENT OVER DROUGHT PRONE REGION
Nagarajan Ramakrishnan IYER
- 1630-130 HS02c/11P/D-032 Poster**
USE OF GEOGRAPHIC INFORMATION AND REMOTELY SENSED DATA IN THE DECISION-MAKING SUPPORT SYSTEM FOR FLOOD MANAGEMENT IN ROMANIA
Corina PREDESCU, Gheorghe STANCALIE, Elena SAVIN
- 1630-131 HS02c/11P/D-033 Poster**
VELOCITY DISTRIBUTION DUE TO LAUNCHING APRON AROUND ABUTMENT
Mohammad Monowar HOSSAIN, Mohammad Salzar HOSSAIN, Mohammad Faheem SADEQUE
- 1630-132 HS02c/11P/D-034 Poster**
URGENT WATER SUPPLY INTO ZHALONG WETLAND IN 2001 AND 2002
Shiguo XU, Lianwen DANG, Heyue LI

HW03 Friday, July 11 PM

QUALITY ASSURANCE IN HYDROLOGICAL RESEARCH (ICWQ, ICSW, ICGW, ICWR, ICASVR, ICCE)

Location: Site C, Room 30

Presiding Chairs: J. Jansen, H. Scholten

1400 HW03/11P/C30-001

QUALITY ASSURANCE IN HYDROLOGICAL DATA

Takeo KINOSITA

1420 HW03/11P/C30-002

INFERRING HIGH AND LOW TRANSMISSIVE ZONES AS WELL AS DISCONTINUITIES IN AN AQUIFER USING SPATIAL CORRELATION OF WATER LEVELS

Tanvi ARORA, Shakeel AHMED

1440 HW03/11P/C30-003

ANALYSIS OF NON-LINEARITY BETWEEN THE DESIRED ACCURACY AND THE DATA NETWORK DENSITY

Shakeel AHMED, Dewashish KUMAR

1500 HW03/11P/C30-004

ABOUT ASSURANCE TO THE QUALITATIVE PARAMETERS OF WATER RESOURCES IN RIVERS AND LAKES

Boris FASHCHEVSKY

1520 HW03/11P/C30-005

SPATIAL VARIABILITY OF VERTICAL PERMEABILITY OF THE SOIL COVER DETERMINED USING DOUBLE RING INFILTRMETER IN MAHESHWARAM WATERSHED IN A GRANITIC SEMI-ARID REGION

Dewashish KUMAR, Shakeel AHMED

1540 BREAK

1600 HW03/11P/C30-006

A NEW GEOSTATISTICAL APPROACH TO ANALYZE SPATIO-TEMPORAL VARIATION OF FLUORIDE IN GROUNDWATER AND OPTIMIZATION OF ITS MONITORING NETWORK

Shakeel AHMED

1620 HW03/11P/C30-007

HYDROECOLOGICAL MAPS OF BELARUS

Boris FASHCHEVSKY, Anatoliy SHARIKOV

1640 HW03/11P/C30-008

FRACTIONAL GOVERNING EQUATION OF GROUNDWATER FLOW: A NUMERICAL ANDEXPERIMENTAL STUDY

Kenta OKADA, Yuko HATANO

1700 HW03/11P/C30-009

GEOSTATISTICAL ANALYSIS OF GROUNDWATER CONTAMINATION IN PAGERU RIVER BASIN AND TESTING THE ADEQUACY OF THE MONITORING NETWORK

P.D. SREEDEVI, Shakeel AHMED

HW07 Friday, July 11 PM

TOWARDS A SCIENCE PROGRAM FOR PREDICTION IN UNGAUGED BASINS (ALL IAHS COMMISSIONS)

Location: Site C, Room 25

1400 HW07/11P/C25-001

THE NEED FOR A NEW LOOK AT REGIONALIZATION BY REGRESSION ANALYSIS

Robin Thomas CLARKE

1415 HW07/11P/C25-002

SIMPLE METHODS OF HYDROLOGICAL DATA PROVISION FOR UNGAUGED CATCHMENTS IN DEVELOPING COUNTRIES

Vladimir SMAKHTIN

1430 HW07/11P/C25-003

EXTREME-EVENT MODELING IN UNGAUGED BASINS BY REGIONAL ESTIMATION

Taha B.M.J. OUARDA, Alin A. CÂRSTEANU, Hugo GINGRAS, Bernard BOBÉE

1445 HW07/11P/C25-004

ON DEFINING WATERSHED SIMILARITY FOR REGIONAL ESTIMATION OF FLOODS AT UNGAGED SITES

Van-Thanh-Van NGUYEN, Nelly PEYRON, Ganesh R. PANDEY

1500 HW07/11P/C25-005

ANALYSIS BY THEORETICAL AND DISTRIBUTED MODELS ON FLOOD FREQUENCY AND PROBABILITY DISTRIBUTION OF RUNOFF SOURCE AREAS

Salvatore MANFREDA, Vito IACOBELLIS, Mauro FIORENTINO

1515 HW07/11P/C25-006

PREDICTING FLOWS USING CLIMATE AND LAND USE DATA FOR UNGAUGED CATCHMENTS IN THE MURRAY-DARLING BASIN, AUSTRALIA

Barry FW CROKE

1530 BREAK

HW07-Posters Friday, July 11 PM

TOWARDS A SCIENCE PROGRAM FOR PREDICTION IN UNGAUGED BASINS (ALL IAHS COMMISSIONS)

Location: Site D

1400-137 HW07/11P/D-001 Poster

TOWARDS THE PREDICTION IN UNGAUGED BASINS -- DATABASE DEVELOPMENT FOR A MESOSCALE RIVER BASIN IN TROPIC CLIMATIC ZONE

Taichi TEBAKARI, Chanchai SUVANPIMOL, Sukit SUANKUASAKOOL, Tianqi AO, Kazuhiko FUKAMI, Junichi YOSHITANI

1400-138 HW07/11P/D-002 Poster

EXPERIMENTAL STUDIES ON RUNOFF AND SOIL EROSION OF BHETAGAD WATERSHED IN CENTRAL HIMALAYAS

Umesh Chandra KOTHYARI

1400-139 HW07/11P/D-003 Poster

THE DEVELOPMENT OF THE DETAILED CLIMATIC SCENARIOS FOR CENTRAL ASIA REGION

Inom Sherovich NORMATOV

1400-140 HW07/11P/D-004 Poster

DATA AVAILABILITY PROBLEMS IN UNGAUGED BASINS OF DEVELOPING COUNTRIES - A TEST CASE

Syed Muhammad Saeed SHAH, Hazael Firoton GABRIEL, Iftikhar AHMAD

1400-141 HW07/11P/D-005 Poster

REPRODUCTION OF DISTRIBUTED RAINFALL INTENSITY USING NUMERICAL MODEL AND SATELLITE DATA

Satoru OISHI, Makoto AKAIKE, Kengo SUNADA, Kuniyoshi TAKEUCHI

1400-142 HW07/11P/D-006 Poster

SIMULATION OF HISTORICAL RAINFALL OVER INDOCHINA PENINSULA

Hiroshi OKUMURA, Taichi TEBAKARI, Tianqi AO, Junichi YOSHITANI

1400-143 HW07/11P/D-007 Poster

HYDROLOGICAL ASPECTS OF THE RAINFALL VARIABILITY OVER KENYA: TREND AND PERIODICITY

Balla Paul MAGGERO

1400-144 HW07/11P/D-008 Poster

PUB AS HYDROLOGICAL PARADIGM, FOOD SECURITY AND POVERTY REDUCTION IN HIMALAYAN RIVER BASINS

R.B. SINGH

1400-145 HW07/11P/D-009 Poster

PROBLEMS OF UNGAUGED BASINS IN PAKISTAN(WITH REFERENCE TO HYDROLOGIC STUDIES)

Syed Muhammad Saeed SHAH, Hazael Firoton GABRIEL, Iftikhar AHMAD

1400-146 HW07/11P/D-010 Poster

THE PROBLEM OF UNGAUGED CATCHMENTS IN THE SUBHUMID TROPICS OF WEST AFRICA (BENIN)

Helge BORMANN, Bernd DIEKKRUEGER

1400-147 HW07/11P/D-011 Poster

ON THE SCIENCE FOR SUSTAINABLE DEVELOPMENT AND MANAGEMENT OF WATER RESOURCES IN UNGAUGED WATERSHEDS

Constantine C. MBAJIORGU

1400-148 HW07/11P/D-012 Poster

WAYS TO USE THE DISCIPLINE OF COMMUNICATION TO MAKE A GREATER CONTRIBUTION TO THE PACE OF PUB

Natalia V. PENKOVA, Anna KURTYCH, Michael NARODOSLAWSKY, Reva S. PETROVA

1400-149 HW07/11P/D-013 Poster

GEOMORPHOLOGIC APPROACH TO HYDROGRAPH PREDICTION IN UNGAGED BASINS

Praveen KUMAR, Kyungrock PAIK

1400-150 HW07/11P/D-014 Poster

STUDY ON A SYNTHETIC SEDIMENT ROUTING MODEL IN A WHOLE RIVER SYSTEM

Kengo SUNADA, Katsuhiko KOMATSU

1400-151 HW07/11P/D-015 Poster

MULTIFRACTAL,DAM MANAGEMENT AND PREDICTION IN UNGAUGED BASINS

Angelbert Chabi BIAOU, Pierre HUBERT, Daniel SCHERTZER, Frederic HENDRICKX, Ioulia TCHIGUIRINSKAIA

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1400-152 HW07/11P/D-016 Poster
NEW SYSTEM OF HYDROLOGICAL COMPUTATIONS FOR UNGAUGED BASINS IN RUSSIA
Vladimir Alexeevich LOBANOVA, H.V. LOBANOVA, A.V. ROZHDESTVENSKY

1400-153 HW07/11P/D-017 Poster
RIVER-LIKE GROUNDWATER FLOW PATTERNS AT THE JUDEA DESERT, THE DEAD SEA RIFT
Haim GVIRTZMAN, Leehee LARONNE

1400-154 HW07/11P/D-018 Poster
HYDROLOGICAL FORECASTING USING DISTRIBUTED MODELS IN THE GREAT LAKES BASIN
Alain Claude PIETRONIRO, Herman GOERTZ, Paul PILON, Harold RITCHIE, Pierre PELLERIN, Paul CAMPBELL, Nick KOUWEN, Paul FORD

1400-155 HW07/11P/D-019 Poster
INVESTIGATING PEAK DISCHARGE FLOOD HYDROGRAPHS IN SELECTED UNGAUGED BASINS OF BALUCHISTAN (PAKISTAN)
Syed Muhammad Saeed SHAH, Hazael Firoton GABRIEL, Iftikhar AHMAD

1400-156 HW07/11P/D-020 Poster
DESIGN FLOOD CALCULATION FOR UNGAUGED SMALL BASINS IN CHINA
Yuanfang CHEN, Guoxing CHEN, Zengchuan DONG, Shenghua GU

1400-157 HW07/11P/D-021 Poster
EFFECTS OF SPATIAL VARIETY IN INSTANTANEOUS UNIT HYDROGRAPH TYPES FROM FIRST-ORDER BASIN ON FLOOD PEAK IN SELF-SIMILAR RIVER NETWORKS
Yosuke KOMATSU, Yasuhisa KUZUHA, Tokuo KISHII, Kunio TOMOSUGI

1400-158 HW07/11P/D-022 Poster
METHODICAL APPROACHES TO PREDICTION AND COMPUTATION OF HYDROLOGICAL CHARACTERISTICS IN UNGAUGED BASINS
Tatyana FASHCHEVSKAYA, Boris FASHCHEVSKY

1400-159 HW07/11P/D-023 Poster
ENVELOPE CURVES OF FLOOD WAVE VOLUMES IN THE DANUBE RIVER BASIN IN CROATIA
Danko BIONDIC, Darko BARBALIC, Josip PETRAS

1400-160 HW07/11P/D-024 Poster
THE STATE-OF-THE-ART IN PREDICTING BLUE NILE LOW FLOWS: A STRATEGIC IMPORTANCE FOR THE WATER RESOURCES MANAGEMENT IN SUDAN
Anil MISHRA, A.W. ABDELHADI, Takeshi HATA, O.E. HAMAD

1400-161 HW07/11P/D-025 Poster
DISCHARGE PREDICTION USING COMPARISON OF CALCULATED-HISTORICAL DATA (CASE STUDY: KRAMAT MICRO-DAM, MADURA - INDONESIA)
Tri Budi PRAYOGO

1400-162 HW07/11P/D-026 Poster
AN EMPIRICAL EQUATION FOR UNGAUGED BASINS TO FIND THE MAXIMUM RUNOFF DISCHARGE
Abdulghani A. HASAN, Anas M. RASHEED

1400-163 HW07/11P/D-027 Poster
APPLICATION WATERSHED MODELLING SYSTEM IN PREDICTING FLOWING SEDIMENT HYDROGRAPH, NORTH IRAQ
Thair Mahmood AL-TAIEE, Anas Mahmood RASHID

1400-164 HW07/11P/D-028 Poster
INTRODUCTION OF SEASONALITY INTO A UNIFYING THEORETICAL FRAMEWORK FOR WATER BALANCE PREDICTIONS IN UNGAUGED BASINS
Yoshiyuki YOKOO, Murugesu SIVAPALAN

1400-165 HW07/11P/D-029 Poster
MULTIVARIATE ESTIMATION OF FLOODS
Jose A. RAYNAL

1400-166 HW07/11P/D-030 Poster
PREDICTION OF SEDIMENT GRAPH IN SMALL UNGAUGED BASINS
Kazimierz BANASIK, Mariusz BARSZCZ, Marek MADEYSKI, J.Kent MITCHELL

1400-167 HW07/11P/D-031 Poster
CLIMATE AND LANDSCAPE CONTROLS ON SPATIAL (SUB-BASIN) VARIABILITY OF WATER BALANCE WITH CHANGING TIME SCALES: APPLICATION OF THE DOWNWARD APPROACH
Darren FARMER, Murugesu SIVAPALAN

1400-168 HW07/11P/D-032 Poster
WIDE UNCERTAINTY OF STEEP UNGAUGED INDUS BASIN
Shaukat A. AWAN

1400-169 HW07/11P/D-033 Poster
ESTIMATION OF DESIGN DISCHARGE IN UNGAUGED BASINS USING GIS
Umamahesh Venkata NANDURI, Naga Malleswara RAO

1400-170 HW07/11P/D-034 Poster
REGIONALIZED REGRESSION RELATIONSHIPS FOR STREAMFLOW ESTIMATION IN UNGAUGED BASINS OF COASTAL KARNATAKA, INDIA
Lakshman NANDAGIRI, Ram Mohan RAO

1400-171 HW07/11P/D-035 Poster
A NEW WEIGHTED FUNCTION MOMENT METHOD BASED ON L-MOMENT FOR PEARSON-III DISTRIBUTION
Yuanfang CHEN, Shenghua GU, Zhigui SHA, Shengbin XU

1400-172 HW07/11P/D-036 Poster
APPLICATION OF REGIONAL FLOOD FREQUENCY ANALYSIS METHOD BASED ON L-MOMENT IN THE REGION OF MIDDLE AND LOWER REACHES OF YANGTZE RIVER
Yuanfang CHEN, Qingrong WANG, Zhigui SHA, Jiangchi CHEN

1400-173 HW07/11P/D-037 Poster
A TENDENCY OF COEFFICIENT OF VARIATION (CV) OF ANNUAL FLOOD AND IMPROVEMENT OF EAGLESON'S CLASSIC MODEL
Yasuhisa KUZUHA, Yosuke Komatsu, Kunio TOMOSUGI, Tokuo KISHII

1400-174 HW07/11P/D-038 Poster
LONG TERM WATER BALANCE PREDICTION OF POORLY GAUGED MOUNTANEOUS BASIN IN THAILAND
M. Husni IDRIS, Kuraji KOICHIRO, Kowit PUNYATRONG, Thada SUKHAPUNNAPHAN, Suzuki MASAKAZU

1400-175 HW07/11P/D-039 Poster
AN APPROACH FOR GROUNDWATER PROSPECTING
Sanjeev KUMAR, Shakeel AHMED, Anand JOSHI



MIAMAS

MI05

Friday, July 11 PM

LARGE SCALE PATTERNS OF ATMOSPHERIC VARIABILITY: DYNAMICS, CLIMATE IMPACTS, AND ROLE IN RECENT CLIMATE CHANGE (ICCI)

Location: Site B, Room 17

Presiding Chairs: O. Tveito, K. Kimura

1400 MI05/11P/B17-001
CHANGES IN ARCTIC RIVER DISCHARGE FROM A CATCHMENT MODEL AND THE INFLUENCE OF ATMOSPHERIC MODES OF VARIABILITY
Jessica Ellen CHERRY, Marc STIEGLITZ, Stephen DERY

1420 MI05/11P/B17-002
RECONSIDERATION OF TRUE VERSUS APPARENT ARCTIC OSCILLATION
Hisanori ITOH

1440 MI05/11P/B17-003
A POSSIBLE CAUSE OF THE ANTARCTIC OZONE HOLE DIMINISHING IN 2002.
Pavel N. VARGIN

1500 MI05/11P/B17-004
POTENTIAL VORTICITY INTRUSION INDICES AND CLIMATE VARIABILITY OF SURFACE TEMPERATURE
Ming CAI

1520 MI05/11P/B17-005
CLIMATE CHANGE IN THE NORTH PACIFIC REGION OVER THE LAST THREE CENTURIES
Kent MOORE, Gerald HOLDSWORTH, Keith ALVERSON

1540

BREAK

1610 MI05/11P/B17-006
NAO AND ENSO PROJECTION ON IRAN CLIMATE PREDICTABILITY
Iman BABAIYAN, Javad BODAGHJAMALI, Sohaila JAVANMARD, Leili KHAZANEDARI

1630 MI05/11P/B17-007
DYNAMICS OF INTRA-SEASONAL VARIABILITY OF THE SIBERIAN HIGH
Koutarou TAKAYA, Hisashi NAKAMURA

1650 MI05/11P/B17-008
NORTH ATLANTIC OSCILLATION PREDICTABILITY IN THE CLIMATE CHANGE PERSPECTIVE
Roxana A. BOJARIU

1710 MI05/11P/B17-009
ASYMETRIES IN THE TEMPERATURE PATTERN ASSOCIATED WITH THE NORTHERN ANNULAR MODE
Judah Levi COHEN

MI07 **Friday, July 11 PM**

CLIMATE INTERACTION AT THE LAND-ATMOSPHERE INTERFACE

Location: Site B, Room 18

Presiding Chair: N.O. Jensen

1400 MI07/11P/B18-001

SURFACE ENERGY BALANCE OF BOREAL FOREST: DEPENDENCY ON SEASON, WEATHER AND SOIL MOISTURE

Anders LINDROTH, Achim GRELLE, Meelis MOLDER

1420 MI07/11P/B18-002

DEVELOPMENT OF SVAT MODEL'S PARAMATERIZATION OF HEAT, WATER AND CARBON EXCHANGE PROCESSES WITHIN FOREST SYSTEMS OF THE BOREAL ZONE: SWAP MODEL

Yeugeniy M. GUSEV, Olga N. NASONOVA

1440 MI07/11P/B18-003

PROGNOSTIC CANOPY AIR SPACE SOLUTIONS FOR LAND SURFACE BIOPHYSICAL EXCHANGES

Pier Luigi VIDALE, Reto STOCKLI

1500 MI07/11P/B18-004

VALIDATION OF SSIB MODEL OVER GRASSLAND WITH CHERES FIELD EXPERIMENT DATA IN 2001

Lan SUN, Yongkang XUE

1520 BREAK

1540 MI07/11P/B18-005

HOW DOES THE PARTITIONING OF EVAPOTRANSPIRATION AND RUNOFF BETWEEN DIFFERENT PROCESSES AFFECT THE VARIABILITY AND PREDICTABILITY OF SOIL MOISTURE AND PRECIPITATION?

Robert E. DICKINSON

1600 MI07/11P/B18-006

EFFECT OF ROOT TEMPERATURE ON WATER UPTAKE AND TRANSPIRATION OF VEGETATION

Tsuneo KUWAGATA, Mari MURAI, Takahiro HAMASAKI

1620 MI07/11P/B18-007

CHANGES, CONTROLLED BY A CLIMATE, IN VEGETATIVE COMMUNITIES OF EUROPEAN NORTH OF RUSSIA

Svetlana Vladimirovna VIDYAKINA, Alexander Andreevich MININ

1640 MI07/11P/B18-008

INFLUENCES OF ELEVATED CO₂ (FACE) ON TRANSPIRATION, PHOTOSYNTHESIS AND MICROMETEOROLOGY IN A RICE PADDY FIELD

Hiroki OUE, Mayumi YOSHIMOTO, Tsuneo KUWAGATA, Kazuhiko KOBAYASHI

1700 MI07/11P/B18-009

THE EFFECTS OF FACE (FREE-AIR CO₂ ENRICHMENT) ON CANOPY EVAPOTRANSPIRATION AND TEMPERATURE IN RICE PADDY ECOSYSTEM

Mayumi YOSHIMOTO, Hiroki OUE, Kazuhiko KOBAYASHI

MC03 **Friday, July 11 PM**

DYNAMICS AND VARIABILITY OF MONSOON SYSTEMS (ICDM)

Location: Site A, Room 7

Presiding Chair: M. Ting

1400 MC03/11P/A07-001

FOUR DIMENSIONAL RAINFALL AND LATENT HEAT RELEASE DISTRIBUTION WITH THE ASIAN SUMMER MONSOON CIRCULATION: THE RELATIONSHIP BETWEEN THE NORTH AND THE SOUTH OF THE PLATEAU

Akiyo YATAGAI

1420 MC03/11P/A07-002

SEASONAL AND DIURNAL VARIATION OF SURFACE TEMPERATURE OVER THE TIBETARN PLATEAU USING GMS DATA

Yuichiroh OKU, Hirohiko ISHIKAWA

1440 MC03/11P/A07-003

ATMOSPHERIC WATER VAPOR AT KOTOTABANGDURING DIFFERENCE PERIODS OF SEASONAL RAINFALL

Yudi Iman TAUHID, Manabu D. YAMANAKA, Tien SRIBIMAWATI, Mori SUICHI, Hamada JUN-ICHI, Peiming WU, Taichi SASAKI, Noriko OKAMOTO, Fumie MURATA, Namiko SAKURAI

1500 BREAK

1520 MC03/11P/A07-004

SURFACE HEAT AND WATER BALANCE TRENDS IN EASTERN ASIA IN THE PERIOD 1971-2000

Jianqing XU, Shigenori HAGINOYA, Kazuyuki SAITO, Ken MOTOYA

1540 MC03/11P/A07-005

MODES, MECHANISMS AND TELECONNECTION OF TROPICAL NORTH AFRICA CLIMATE VARIABILITY

Abebe YESHANEW

1600 MC03/11P/A07-006

SOME RECENT STUDIES OF THE CHARACTERISTICS OF WEATHER SYSTEMS (INCLUDING THE MONSOON SYSTEMS) OF WEST AFRICA USING SATELLITE DATA

Simon Oyediran OJO

MC03-Posters **Friday, July 11 PM**

DYNAMICS AND VARIABILITY OF MONSOON SYSTEMS (ICDM)

Location: Site D

1400-176 MC03/11P/D-001

Poster

SEVERAL DAYS VARIATION OF TEMPERATURE INVERSIONS OVER THE PRE-MONSOONINDOCHINA PENINSULA AND THEIR EFFECTS ON THE TRANSITION TO MONSOONONSET

Shin-Ya OGINO, Yoshihiro TACHIBANA, Masato NODZU, Eisho AZUMA, Yoshinori KAMATA, Yuko KAMIAKITO

1400-177 MC03/11P/D-002

Poster

FINE VERTICAL STRUCTURE OF THE HORIZONTAL DIVERGENCE OVER THE ASIAN SUMMER MONSOON REGION

Noriyuki NISHI

1400-178 MC03/11P/D-003

Poster

THE CHARACTERISTICS OF INDIAN OCEAN DIPOLE MODE - PRELIMINARY STUDY OF THE MONSOON VARIABILITY IN THE WESTERN PART OF INDONESIAN REGION -

Eddy HERMAWAN

1400-179 MC03/11P/D-004

Poster

DIURNAL VARIABILITY OF THE PRECIPITABLE WATER OVER THE EAST ASIA DURING GAME-IOP

Nobuhiko ENDO

1400-180 MC03/11P/D-005

Poster

CLIMATOLOGY AND TRENDS OF LOW LEVEL CLOUD INVERSIONS IN THE EAST ASIA DURING SUMMER

Nobuhiko ENDO

1400-181 MC03/11P/D-006

Poster

THE WITHDRAWAL OF THE BAIU CAUSED BY MID-LATITUDE WAVES

Shin-ichi SUZUKI

1400-182 MC03/11P/D-007

Poster

INTRASEASONAL RAINFALL VARIATIONS IN A MOUNTAINOUS REGION OF SUMATERA, INDONESIA

Jun-Ichi HAMADA, Manabu D. YAMANAKA, Shuichi MORI, Yudi Iman TAUHID, Tien SRIBIMAWATI

1400-183 MC03/11P/D-008

Poster

THE CONVECTIVE ACTIVITY IN PRE-MONSOON OVER THE INDOCHINA PENINSULA

Masashi KIGUCHI, Jun MATSUMOTO

1400-184 MC03/11P/D-009

Poster

DIURNAL LAND-SEA RAINFALL PEAK MIGRATION OVER SUMATRA ISLAND, INDONESIAN MARITIME CONTINENT OBSERVED BY TRMM SATELLITE AND INTENSIVE RAWINSONDE SOUNDINGS

Shuichi MORI, Jun-Ichi HAMADA, Yudi I. TAUHID, Manabu D. YAMANAKA, Noriko OKAMOTO, Fumie MURATA, Namiko SAKURAI, Tien SRIBIMAWATI

1400-185 MC03/11P/D-010

Poster

FORMATION PROCESS OF THE PRECIPITATION SYSTEMS IN THE MEIYU FRONT ON THE CHINA CONTINENT DURING GAME/HUBEX 1998

Takeshi MAESAKA, Hiroshi UYEDA, Teruyuki KATO, Masanori YOSHIZAKI

1400-186 MC03/11P/D-011

Poster

SIMULATION OF HEAVY RAINFALL EVENTS DURING INDIAN SUMMER MONSOON USING A MESOSCALE MODEL

Sijikumar S, Mohankumar K, Joseph V. PORATHUR

1400-187 MC03/11P/D-012

Poster

DEVELOPMENT OF A HIGH-RESOLUTION ASSIMILATED DATASET FOR SOUTH AMERICA REGION

Dirceu Luis HERDIES, Jose A. ARAVEQUIA, Rosangela CINTRA, Jose P. BONATTI

1400-188 MC03/11P/D-013

Poster

SUMMERTIME ENSO TELECONNECTIONS OVER THE EURASIA

Eun-Jeong CHA

1400-189 MC03/11P/D-014

Poster

SEASONAL CHANGES OF SUB-TROPICAL FRONTAL ZONE OVER EAST ASIA

Hiroaki TAKAHARA, Jun MATSUMOTO

1400-190 MC03/11P/D-015

Poster

DETECTION AND DYNAMICS OF THE PRINCIPAL MODE OF ASIAN SUMMER MONSOON VARIABILITY

Natsuko YASUTOMI, Masahide KIMOTO

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- 1400-191 MC03/11P/D-016 Poster**
THE 2000/2001 SUMMER DROUGHT OVER BRAZIL AND ITS ASSOCIATION WITH SST ANOMALIES
Anita Rodrigues de Moraes DRUMOND, Tercio AMBRIZZI
- 1400-192 MC03/11P/D-017 Poster**
ORGANIZATION MECHANISM AND HEATING EFFECTS OF MESOSCALE CONVECTIVE SYSTEMS RELATED TO THE ACTIVITY OF EQUATORIAL WAVES
Chiharu TAKAHASHI, Hiroshi UYEDA, Masayuki MAKI, Koyuru IWANAMI, Ryohei MISUMI, Thomas D. KEENAN
- 1400-193 MC03/11P/D-018 Poster**
EFFECTS OF AEROSOLS AND GREENHOUSE GASES ON THE SOUTHEAST ASIAN MONSOON SYSTEM
Beate Gertrud LIEPERT, Johann FEICHTER

MC04 Friday, July 11 PM
PLANETARY ATMOSPHERES AND THEIR EVOLUTION (ICPAE)
Location: Site B, Room 22

Presiding Chair: T. Imamura

- 1400 MC04/11P/B22-001 Invited**
TEN YEARS OF THE 'EUROMARS' CLIMATE MODEL
Peter Leonard READ, Stephen LEWIS, Claire NEWMAN, Luca MONTABONE, Henning BÖTTGER, Francois FORGET, Frédéric HOURDIN, Monika ANGELATS I COLL, Miguel LOPEZ-VALVERDE, Jean-Paul HUOT, Marie-Christine DESJEAN
- 1430 MC04/11P/B22-002**
A NUMERICAL STUDY OF VERTICAL EDDY MIXING DUE TO GRAVITY WAVES GENERATED BY THERMAL CONVECTION IN THE MARTIAN ATMOSPHERE
Masatsugu ODAKA, Kiyoshi KURAMOTO, Kensuke NAKAJIMA, Yoshi-Yuki HAYASHI
- 1445 MC04/11P/B22-003**
DEVELOPMENT OF A GENERAL CIRCULATION MODEL FOR THE EARTH TYPE PLANETARY ATMOSPHERES: THE GFD DENNOU CLUB ATMOSPHERIC GENERAL CIRCULATION MODEL VERSION 6
Masatsugu ODAKA, Masaki ISHIWATARI, Shin-ichi TAKEHIRO, Keiichi ISHIOKA, Eizi TOYODA, Yoshi-Yuki HAYASHI
- 1500 MC04/11P/B22-004**
MERIDIONAL CIRCULATIONS IN THE PLANETARY ATMOSPHERES
Manabu D. YAMANAKA
- 1515 MC04/11P/B22-005 Invited**
SOME REMARKS ON THE THEORY OF MULTIPLE EQUILIBRIA IN THE ATMOSPHERE
Jianping LI, Shouhong WANG

1545 BREAK

- 1615 MC04/11P/B22-006**
HYDRODYNAMIC WAVES IN THE MARTIAN TOPSIDE IONOSPHERE: THEORY, SIMULATION AND EVIDENCE
Jing-Song WANG, Erling NIELSEN
- 1630 MC04/11P/B22-007**
THE EFFECT OF OBLIQUITY AND SURFACE CONDITION ON THE WATER CIRCULATION AND FREEZING CONDITION OF A PLANET: IMPLICATIONS ON HABITABILITY AND PALEO-MARS ENVIRONMENT
Yutaka ABE, Ayako ABE-OUCHI
- 1645 MC04/11P/B22-008**
ROLE OF CO₂ CONDENSATION IN THE SURFACE ENVIRONMENTAL EVOLUTION ON MARS: PART I. CLIMATE TRANSITION BY ATMOSPHERE-ICE CAP MASS EXCHANGE
Tokuta YOKOHATA, Masatsugu ODAKA, Kiyoshi KURAMOTO
- 1700 MC04/11P/B22-009**
ROLE OF CO₂ CONDENSATION IN THE SURFACE ENVIRONMENTAL EVOLUTION ON MARS: PART II. STABILITY AND GREENHOUSE EFFECT OF THE ICE CLOUD
Tokuta YOKOHATA, Yoshiyuki KOSUGITA, Masatsugu ODAKA, Kiyoshi KURAMOTO
- 1715 MC04/11P/B22-010**
EVOLUTION OF RESIDUAL CO₂ ICE CAP AND CLIMATE CHANGES ON MARS
Kaoru TAKAYAMA, Tokuta YOKOHATA, Masatsugu ODAKA, Kiyoshi KURAMOTO

MC05 Friday, July 11 PM
MIDDLE ATMOSPHERE SCIENCE (ICMA)
Location: Site A, Room 9

Presiding Chair: K. Hamilton

- 1400 MC05/11P/A09-001 Invited**
GRAVITY WAVES IN A GENERAL CIRCULATION MODEL
Masaaki TAKAHASHI, Yoshio KAWATANI
- 1430 MC05/11P/A09-002**
GRAVITY WAVE DISTRIBUTION ALONG THE EQUATOR IN A HIGH RESOLUTION AGCM
Koichiro TSUJI, Masaaki TAKAHASHI, Yoshio KAWATANI

- 1450 MC05/11P/A09-003**
A SIMULATION STUDY OF GRAVITY WAVES GENERATED BY TYPHOON WINNIE
Zeyu CHEN, Peter PREUSSE, Michael JARISCH, Manfred ERN, Dirk OFFERMANN

- 1510 MC05/11P/A09-004**
EFFECTS OF HURRICANES ON THE STRATOSPHERE: EVIDENCE OF GRAVITY WAVE ACTIVITY FROM CAMEX-4 IN SITU MEASUREMENTS AND MESOSCALE MODELING
Eric A. RAY, Karen ROSENLOF, Erik RICHARD, Ken KELLY, M.J. MAHONEY, Joan ALEXANDER

- 1530 MC05/11P/A09-005**
WAVE ACTIVITY IN THE TROPICAL TROPOSPHERE AND LOWER STRATOSPHERE OBSERVED WITH THE EQUATORIAL ATMOSPHERE RADAR
Fumitaka TSUJINO, Masayuki YAMAMOTO, Masatomo FUJIWARA, Hiroyuki HASHIGUCHI, Mamoru YAMAMOTO, Shoichiro FUKAO

1550 BREAK

- 1620 MC05/11P/A09-006**
CHARACTERISTICS OF ATMOSPHERIC WAVES OBSERVED WITH RADIOSONDES DURING DAWEX CAMPAIGNS
Toshitaka TSUDA

- 1640 MC05/11P/A09-007**
DAWEX EXPERIMENT: OBSERVATIONAL ANALYSIS OF WAVES AT DIFFERENT SCALES
Alejandro DE LA TORRE, Toshitaka TSUDA

- 1700 MC05/11P/A09-008**
GRAVITY WAVE ACTIVITIES OVER A SMOOTH SURFACE WITH LITTLE CONVECTION
Yoshio KAWATANI, Masaaki TAKAHASHI, Surendra Kumar DHAKA, Toshitaka TSUDA

- 1720 MC05/11P/A09-009**
OBSERVATIONAL FILTER FOR GRAVITY WAVE CHARACTERISTICS OBTAINED FROM GPS RADIO OCCULTATION SOUNDINGS
Christian MARQUARDT

- 1740 MC05/11P/A09-010**
A MODEL SIMULATION OF MOUNTAIN WAVES IN THE MIDDLE ATMOSPHERE AND ITS COMPARISON WITH MICROWAVE LIMB SOUNDER OBSERVATIONS
Jonathan H. JIANG

MC11 Friday, July 11 PM
CLIMATE MODEL EVALUATION: HOW WELL DO MODELS REPRESENT OBSERVATIONS (ICCI)
Location: Site B, Room 19

- 1400 MC11/11P/B19-001**
EVALUATING AMIP2 MODEL SIMULATIONS OVER THE AUSTRALIA REGION
Huqiang ZHANG, A. HENDERSON-SELLERS, P. IRANNEJAD, S. SHARMEEN, T. PHILLIPS, K. MCGUFFIE

- 1420 MC11/11P/B19-002**
EVALUATION OF THE REGIONAL ETA/SSIB MODEL IN MODELING NORTH AMERICAN CLIMATE
Yongkang XUE, Ratko VASIC, Zavisa JANJIC

- 1440 MC11/11P/B19-003**
PRECIPITATION OVER COMPLEX TOPOGRAPHY: AN EVALUATION AND INTERCOMPARISON OF REGIONAL CLIMATE MODELS
Christoph FREI, Juerg SCHMIDL

- 1500 MC11/11P/B19-004**
SENSITIVITY OF THE EAST ASIAN SUMMERTIME CLIMATE TO SURFACE WATER CAPACITY DISTRIBUTION
Hyung-Jin KIM, Jeong-Woo KIM

- 1520 MC11/11P/B19-005**
PREDICTABILITY AND UNCERTAINTY IN A REGIONAL CLIMATE MODEL: LESSONS FROM PERFECT MODELS AND PERFECT DATA
Pier Luigi VIDALE, Daniel LUETHI, Christoph FREI, Sonia I. SENEVIRATNE, Christoph SCHAEER

MC11-Posters Friday, July 11 PM

CLIMATE MODEL EVALUATION: HOW WELL DO MODELS REPRESENT OBSERVATIONS (ICCL)

Location: Site D

1400-194 MC11/11P/D-001 Poster
HOW MUCH THE ADVECTION SCHEME AFFECTS CLIMATE SIMULATION WITH AGCM
Xindong PENG, Feng XIAO

1400-195 MC11/11P/D-002 Poster
ANALYSIS OF REGIONAL CLIMATE MODEL PERFORMANCE FOR THE ARAL SEA AREA. COMPARISON WITH OBSERVATIONS
Elisaveta Lazarova PENEVA, Emil Vassilev STANEV

1400-196 MC11/11P/D-003 Poster
GCM SIMULATIONS OF THE HEAT AND WATER BUDGETS OVER MAJOR RIVER AND THE CASPIAN SEA WATERSHEDS
Petr V. SPORYSHEV, Valentin P. MELESHKO, Tatyana V. PAVLOVA, Veronika A. GOVORKOVA

1400-197 MC11/11P/D-004 Poster
AN ASSESSMENT OF SEASONAL PREDICTABILITY IN SUMMER BY USING THE NCC/IAP COUPLED ATMOSPHERE-OCEANIC GENERAL CIRCULATION MODEL
Yihui DING, Qingquan LI, Zuqiang ZHANG

1400-198 MC11/11P/D-005 Poster
THE MODELING OF OROGRAPHICAL EFFECT ON THE FORMATION OF DRY CLIMATE IN NORTHEASTERN ASIA
Tomonori SATO, Fujio KIMURA

1400-199 MC11/11P/D-006 Poster
ORDER IN THE LOW-FREQUENCY PLANETARY WAVE DYNAMICS
Dmitry Mikhailovich SONECHKIN, Nadejda Nazarovna IVACHTCHENKO

MC17 Friday, July 11 PM

PROPAGATION MECHANISMS FOR THE MADDEN-JULIAN OSCILLATION (MJO) (ICDM)

Location: Site B, Room 23

Presiding Chairs: B. Wang, R. Madden

1400 MC17/11P/B23-001
SUBSEASONAL ATMOSPHERIC VARIABILITY AND EL NIÑO
Gabriel Andres VECCHI, D.E. HARRISON

1420 MC17/11P/B23-002
A STATISTICAL ANALYSIS OF WESTERLY WIND BURSTS IN THE EQUATORIAL TROPICS AND THEIR INTERRELATIONSHIP WITH ENSO AND INTRASEASONAL VARIATIONS
Ayako SEIKI, Yukari N. TAKAYABU

1440 MC17/11P/B23-003
THE STRUCTURES OF DEEP CONVECTIONS AND THEIR ENVIRONMENT OBSERVED DURING THE ACTIVE PHASE OF MADDEN-JULIAN OSCILLATION OVER THE EQUATORIAL WESTERN PACIFIC
Hisayuki KUBOTA, Ryuichi SHIROOKA, Tomoki USHIYAMA, Jingyang CHEN, Takashi CHUDA, Kensuke TAKEUCHI, Kunio YONEYAMA, Masaki KATSUMATA

1500 MC17/11P/B23-004
MODULATION OF TROPICAL CYCLONE BY MADDAN-JULIAN OSCILLATION
Congwen ZHU, Tetsuo NAKAZAWA

1520 BREAK

1540 MC17/11P/B23-005
A FURTHER STUDY ON ZONAL PROPAGATION OF TROPICAL INTRASEASONAL OSCILLATION (MJO)
Chongyin LI

1600 MC17/11P/B23-006
OBSERVATIONAL RESULTS FOR RELATIONSHIP BETWEEN LOWER TROPOSPHERIC WESTERLY AND RAINFALL AT KOTOTABANG, WEST SUMATERA, INDONESIA
Fumie MURATA, Manabu D. YAMANAKA, Shin-Ya OGINO, Masatomo FUJIWARA, Hiroyuki HASHIGUCHI, Shoichiro FUKAO, Shuichi MORI, Jun-Ichi HAMADA, Yudi Iman TAUHID, Tien SRIBIMAWATI, Budi SUHARDI

1620 MC17/11P/B23-007
MANIFESTATION OF MJ OSCILLATION IN THE TROPICAL ATMOSPHERIC BOUNDARY LAYER OVER AN INLAND STATION
P.K. KUNHIKRISHNAN, Praveena KRISHNAN, S. Muralaeeharan NAIR

1640 MC17/11P/B23-008
AN OBSERVATIONAL STUDY ON INTRASEASONAL VARIATIONS WITH EQUATORIAL ATMOSPHERE RADAR IN WEST SUMATERA, INDONESIA
Tri Handoko SETO, Masayuki YAMAMOTO, Hiroyuki HASHIGUCHI, Masatomo FUJIWARA, Mamoru YAMAMOTO, Shoichiro FUKAO

1700 MC17/11P/B23-009
INTRASEASONAL VARIABILITY OVER TROPICALAFRICA DURING NORTHERN SUMMER
Adrian J. MATTHEWS

1720 MC17/11P/B23-010
IMPACT OF FREE-TROPOSPHERIC HUMIDITY ON DEEP CONVECTION
Steve DERBYSHIRE, Wojciech W. GRABOWSKI, Isabelle BEAU, Peter BECHTOLD, Jean-Yves GRANDPEIX, Jean-Marcel PIRIOU, Jean-Luc REDELSPERGER, Pedro SOARES

**WEEK
B
FRI
PM**